

000000

MM MMMM MMMM MM I MM MM MM MM MM MM MM MM MM 

\$	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		VV VV VV VV VV VV VV VV VV VV VV VV VV
SSSSSSSS	EEEEEEEEE	Ħ	VV
		\$\$\$\$\$\$\$\$\$ \$	
		\$\$\$\$\$\$ \$\$\$\$\$\$	
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	

MODULE setvol IDENT = 'V04-000' ADDRESSING\_MODE (EXTERNAL=GENERAL. NONEXTERNAL=LONG\_RELATIVE)

BEGIN

! \*

! \* ! \*

! \*

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FACILITY: Set Volume Command

ABSTRACT:

This module processes the Set Volume command.

ENVIRONMENT:

Vax native, privileged user mode

AUTHOR: Gerry Smith

CREATION DATE: 3-Nov-1981

MODIFIED BY:

AEW0003 Anne E. Warner 18-Jul-1 Add a check to see if the device specified is a Files-11 format disk and if not tell the user. V03-010 AEW0003 18-Jul-1984 This check includes the new error message: set\$\_notdisk, device is not a files-11 format disk

Also check to see if qualifiers with 'values' check that the qualifier is present before looking for values. This is because most qualifiers are negatable now. As a result this check was added to /LABEL when it is checked for. 0058 0059 0060 0061 0062 0063 0064 0065 0066 0067 0071 0072 0073 0074 0075 0076 0079 0080 DASO001 David Solomon 09-Jul-1984 Add support for /REBUILD - perform volume rebuild. V03-009 DAS0001 09-Jul-1984 AEW0002 Anne E. Warner 24-May-1984 Change RMS access to \$QIOW access so that the home block can be found in ODS1 structure blocks. The problem was that RMS sees the End-of-file as zero on an ODS1 initialized volume and will not look for a valid home block. LMP0221 L. Mark Pilant, 9-Apr-1984 10 Change UCB\$L\_OWNUIC to ORB\$L\_OWNER and UCB\$W\_VPROT to V03-007 LMP0221 9-Apr-1984 10:46 ORBSW\_PROT. MCN0164 Maria del C. Nasr 03-Apr-1984
The /DATA\_CHECK qualifier must accept NOREAD and NOWRITE. V03-006 MCN0164 AEW0001 Anne E. Warner 21-Mar-1984 Add a check to see if volume is mounted foreign. If it is it cannot be modified because it is not in Files-11 format so notify the user and exit. V03-005 AEW0001 GASO132 Gerry Smith 13-May-1983
Add [NO]HIGHWATER, [NO]UNLOAD, [NO]MOUNT\_VERIFICATION,
[NO]ERASE\_ON\_DELETE. Also modify VOLSET.SYS on the
root volume for volume sets if /LABEL specified. V03-004 GAS0132 V03-003 GAS0121 GASO121 Gerry Smith 14-Apr-1983 For ODS1 disks, fold long UICs into <377,377>. GASO112 Gerry Smith 29-Mar-1983 Convert to new CLI interface, and new command dispatcher. V03-002 GAS0112 GAS52349 Gerry Smith 4-Jan-1983 Remove one level of indirection from the DEVCHAR field of the UCB when modifying its contents. V03-001 GAS52349 V03-006 GAS0091 GAS0091 Gerry Smith Change input request for new CLD syntax. 19-0ct-1982 0102 0104 0105 0106 0107 V03-005 GAS0040 2-Feb-1982 Gerry Smith fix privilege checking to check for write access to the volume's index file. Also, fix write bug that prevented modified home blocks to be written back. 0108 0109 V03-004 GAS0033 Gerry Smith 12-Jan-1982 0110 fix various bugs. 0111 V03-003 GAS0030 GASO030 Gerry Smith 1-Jan-1982 Add /RETENTION, the default retention period for files

created on a volume.

SETVOL VO4-000		K 16 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1
: 115 : 116 : 117 : 118	0115 1 ! 0116 1 ! 0117 1 ! 0118 1 !	V03-002 GAS0026 Gerry Smith 18-Dec-1981 Use shared message file, and lower fatal messages to simple error messages.
115 116 117 118 119 120 121 121	0120 1 1 0121 1 1 0122 1 1 0123 1 1**	V03-001 GAS0025 Gerry Smith 14-Dec-1981 Add /LOG qualifier

(2)

```
M 16
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
 SETVOL
VO4-000
                                                                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1
                                       0146
0147
0148
0151
0153
0155
0155
0155
0166
0166
0166
0166
0167
0168
0170
                                                          FORWARD ROUTINE
        set$volume : NOVALUE.
                                                                                                                                                               Main routine for volume
Get qualifiers
                                                                   get_quals,
parse_class,
process_volume_set : NOVALUE,
process_one_volume : NOVALUE,
modify_volset : NOVALUE,
set_home,
set_ucbvcb : NOVALUE,
read_homeblock;
                                                                                                                                                               Parse a protection class
                                                                                                                                                                Process volume set
                                                                                                                                                              Process volume
Process each volume
Fix VOLSET.SYS
Modify the homeblock
Modify the UCB and VCB for the disk
Find and read first good homeblock
                                                          EXTERNAL ROUTINE
                                                                   clispresent,
clisget_value,
libsfile_scan,
check_privilege : NOVALUE,
search_error,
file_error,
checksum2,
                                                                                                                                                               Get qualifier
                                                                                                                                                               Get value for qualifier
                                                                                                                                                              Routine to get next directory
Routine to check for privilege
Where to go if file search fails
Where to go if file error occurs
Compute checksum
                                                                    get_channelucb,
lib$cvt_dtb,
lib$cvt_dtime,
                                                                                                                                                               Routine to get address of UCB
Convert decimal to number
                                                                                                                                                                Convert delta time
                                                                     lib$tparse,
                                                                                                                                                               Parser
                                                                    parse_uic,
                                                                                                                                                               Parse a UIC
                                                                    sys$fao:
                                                                                                                                                              Formatted ASCII output
                                       0174
0175
0176
0177
                                                               External data references
                                                          EXTERNAL
                                       0178
0179
                                                               Data
                                       0180
                                                                    exte_value,
                                                                                                                                                                                  EXTENSION value
                                       0181
0182
0183
                                                                    uic_value,
                                                                                                                                                                                  Owner UIC
                                                                                                                                                                                 UIC group number
UIC member number
                                                                    group.
                                                                    member:
                                       0184
0185
                                                               Error messages
                                                         EXTERNAL LITERAL

clis_ivprot,
clis_absent,
sets_operreq,
sets_badfrmt,
sets_hbread,
sets_hbwrite,
sets_modified,
                                       0188
0189
0190
0191
0192
0193
                                                                                                                                                           ! Invalid protection value
                                                                                                                                                              OPER privilege required
Volume doesn't have files-11 format
Error reading homeblock
Error writing homeblock
Volume modified
Volume has no good home block
Device is not a files-11 format disk
Volume not modified
Qualifier invalid for CDS1
Error reading volume
                                       0194
0195
0196
0197
                                                                    set$ nohome,
set$ notdisk,
set$ notmod,
set$ notods2,
                                       0198
0199
0200
0201
                                                                                                                                                              Error reading volume
Error updating ucb and vcb
Could not write to file
                                                                    sets readerr,
                                                                    set$_sysnotupd.
                                                                    set$_writeerr;
```

(3)

LITERAL SEQUEST

(DATA\_,,1,1, (read,), (write,),

(noread,), (nowrite,));

2222

! Old label was saved

DATA\_CHECK = READ DATA\_CHECK = WRITE DATA\_CHECK = NOREAD DATA\_CHECK = NOWRITE

SETVOL V04-000			C 1 16-Sep-1984 01:01:55 14-Sep-1984 12:09:22	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 7
258 259 260 261 262 263 264 265 265 266 267 268 269 270	0255 0256 0257 0258 0259 0260 0261 0262 0263 0264 0265 0266	Define storage for this module the GLOBAL  acc_value, fprot_value, label_value : VECTOR[2], vprot_value, retmin_value : VECTOR[2], retmax_value : VECTOR[2], user_value : VECTOR[2], window_value;	! ACCESSED val ! FILE_PROTECT ! LABEC label ! PROTECTION v ! Minimum rete	ION value	37

(set\$\_notmod, 1, nodisk\_desc, set\$\_notdisk);

It is a files-11 device so check if mounted foreign

SIGNAL

RETURN false:

length of device name

inform user of error

device name

```
6 1
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                           VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1
                                                                                                                                                                             Page
                                                                                                                                                                                    (6)
                                            IF .devchar[dev$v_for]
THEN
BEGIN
LOCAL
416
                                                foreign_desc : $BBLOCK[dsc$c_s_bln];
                                                                                                                ! descriptor for volume name
                                               $INIT_DYNDESC (foreign_desc);
foreign_desc[dsc$w_length] = .root_desc[0];
foreign_desc[dsc$a_pointer] = .root_desc[1];
    4190123456789012344435
                                                                                                                  length of volume name
                                                                                                                  volume name
                                               SIGNAL (set$_notmod, 1, foreign_desc, set$_badfrmt);
RETURN false;
                                                                                                                  inform user of error
                                             END:
                                      If everything is alright process the volume set.
                                            END:
                                       END:
                                 RETURN;
END;
                                                                                                       .TITLE
                                                                                                                  SETVOL
\V04-000\
                                                                                                        .PSECT
                                                                                                                  SPLITS, NOWRT, NOEXE, 2
           53 2E
                                                                                    00000 P.AAA:
                            58
                                 45
                                                              30
                                                                   20
                                                                         30
                      46
                                                                              5B
                                                                                                        .ASCII
                                                                                                                   \[0,0]INDEXF.SYS\
                                                                                    ÖÖÖÖF
                                                                                                        .BLKB
                                                                      4F 56
010E0006
00000000
                                                                                    00010 P.AAC:
                                                                                                                  \VOLUME\<0><0>
17694726
                                                  45
                                                             55
                                                                                                        .ASCII
                                                                                    00018
0001C
                                                                                            P.AAB:
                                                                                                       .LONG
                                                                                                        .ADDRESS P.AAC
                                                                                                        .PSECT SOWNS, NOEXE, 2
                                                                                    00000 FLAGS: .BLKB
                                                                                    00008 USER_LABEL:
                                                                                                                   12
                                                                                                         BLKB
                                                                                    00014 LABEL_BUFF:
                                                                                    00020 BUFFER: .BLKB
00220 ACC INC:.BLKB
00221 ODST: .BLKB
                                                                                                                  12
512
                                                                                            CHANNEL: .BLKB
                                                                                            RESULT_FILE:
                                                                                                       BLKB
BLKB
BYTE
BYTE
BYTE
BYTE
                                                                              02
60
FF
00
                                                                                                                  96
                                                                                                                  0
```

	H 1 16-Sep-1984 14-Sep-1984	01:01:5	5	VAX-11 Bliss [CLIUTL.SRC]	-32 V4.0-	742 .832;1	Page	(6)
00000000 003	gç .	ADDRESS		T_FILE		ę	:	
00 003 00 003 00 003 00 003	30 31 32 33	BYTE OBYTE OBYTE OBYTE						
000000000 003 00 003 00 003 00 003 00 003 00000000 003 0000# 003 0000# 003 0000# 003 0000# 003 00000# 003	38 30 40	BYTE OBYTE O	[8] [3]					
00 003	58 50 60 61 62 63	LONG OLONG OBYTE OBYTE OBYTE OBYTE OBYTE						
00000000 003 00000000 003 00000000 003	70 .	BYTE OBYTE OBYTE OF COMMENT OF CO	[5]					
00000000 003 00000000 003 00000000 003 03 003 50 003 0000000 003	7C 80 88 FAB: 89	BYTE 3	[2]					
00000000 003 00000000 003 00000000 003	94 . 98 .	LONG O	31072					
23 003 42 003 00000000 003	9E 9F A0	BYTE 3 BYTE 6 LONG 0 BYTE 0 BYTE 0 BYTE 0 BYTE 0 BYTE 0 LONG 0 LONG 0						
00 003 00 003 00 003 00 003 00 000000 003 00 000000 003 00 000000 003 00 000000 003 00 0000 003 00 003	A8 AC B0 B4 B8 BC	LONG O LONG O ADDRESS LONG O ADDRESS BYTE O BYTE 1	NAM P.AAA					
00000000 003 0000 003 000 003 00 003	BE	WORD O LONG O WORD O BYTE O						
00000000 003 00000000 003 0000 003 00 003	C8	WORD OUT OF THE CONG OUT OF THE CONG OUT						

					12	1 -Sep-198 -Sep-198	84 01:01 84 12:09	55 VAX-11 Bliss-32 V4.0-742 P 22 [CLIUTL.SRC]SETVOLUME.B32;1	age	(6)
		00	0000	00	003D3 003D4		.BYTE	8	:	
							.PSECT	\$GLOBAL\$,NOEXE,2		
					00004 00008 00010	FPROT_V/ LABEL_V/ VPROT_V/ RETMIN_V	.BLKB ALUE:: .BLKB ALUE:: .BLKB ALUE::	4 4 8 4		
					0001c 00024	RETMAX_V USER_VAI WINDOW_V	.BLKB VALUE:: .BLKB LUE:: .BLKB	8 8 8 4		
								CLISPRESENT, CLISGET_VALUE LIBSFILE_SCAN, CHECK_PRIVILEGE SEARCH_ERROR, FILE_ERROR CHECKSOM2, GET_CHANNELUCB LIBSCVT_DTB, LIBSCVT_DTIME LIBSTPARSE, PARSE_UIC SYSSFAO, EXTE_VALUE UIC_VALUE, GROUP MEMBER, CLIS_IVPROT CLIS_ABSENT, SETS_OPERREQ SETS_BADFRMT, SETS_HBREAD SETS_HBWRITE, SETS_MODIFIED SETS_NOHOME, SETS_NOTDISK SETS_NOTMOD, SETS_NOTODS2 SETS_READERR, SETS_SYSNOTUPD SETS_WRITEERR, SYSSGETDVIW		
							.PSECT	SCODES,NOWRT,2		202
000000000 00000000V	52 5E 00 EF	00000000G FEB0	00 CE 00	099FFB904FFB84E09D9	00000 00002 00009 0000E 00015		MOVAB MOVAB CALLS CALLS	SET\$VOLUME, Save R2 LIB\$SIGNAL, R2 -336(SP), SP #0, CHECK PRIVILEGE #0, GET_QUALS R0, 2\$ #34471936, DYN_DESC DYN_DESC+4 DYN_DESC P.AAB #2, CLI\$GET_VALUE R0, 3\$	:	293 330 335
F8	1B AD	020E0000 FC F8	0E00058FDDF20	E9 D0 D4 9F	0001C 0001F 00027 0002A	15:	BLBC MOVL CLRL PUSHAB PUSHAB	RO. 25 #34471936, DYN_DESC DYN_DESC+4 DYN_DESC	0	342 343
0000000G	00 01	00000000	02 50	FB E8	00027 0002A 0002D 00033 0003A 0003D	2\$:	CALLS BLBS RET	#2, CLISGET_VALUE RO, 3\$		
	50 80 80	00320080 FF68	AE 8F CD	9E 9E 9E	0003D 0003E 00042 00049	3\$:	RET MOVAB MOVL MOVAB	DVI_LIST, \$\$ITMBLKPTR #3276928, (\$\$ITMBLKPTR)+ ROOT_BUFFER, (\$\$ITMBLKPTR)+	0	371

S	ET	V	0	L	
V	04	,-	Ŏ	ō	0

						1	5-Sep-19 4-Sep-19	84 01:01 84 12:09	:55 VAX-11 Bliss-32 V4.0-742 Page :22 [CLIUTL.SRC]SETVOLUME.B32;1	e 14 (6)
		80 80 80	002E0004 F0	AD 8F AD	9E 9E	0004E 00052 00059		MOVAB MOVAB	ROOT_DESC, (\$\$ITMBLKPTR)+ #3014660, (\$\$ITMBLKPTR)+ ORIGINAL_RVN, (\$\$ITMBLKPTR)+	
		80 80	00300004 F4	8F AD	00 9E	0005F 00066		MOVL	#3145732, (\$\$ITMBLKPTR)+ MAX_RVN, (\$\$ITMBLKPTR)+	
		80	00020004 3C	80 8F AE	D4 D0 9E	0006A 0006C 00073		MOVL MOVAB	(\$\$ITMBLKPTR)+ #131076, (\$\$ITMBLKPTR)+ DEVCHAR, (\$\$ITMBLKPTR)+	
	EC	AD	FF68	80 CD 7E	7C 9E 7C	00077 00079 0007F		CLRQ MOVAB CLRQ	(\$\$ITMBLKPTR)+ ROOT_BUFFER, ROOT_DESC+4 -(SP)	0373 0377
			FF60 18 F8	7E CD AE AD	9F 9F 9F	00081 00083 00087 0008A		MOVL MOVAB CLRL MOVAB CLRL MOVAB CLRQ MOVAB CLRQ CLRL PUSHAB PUSHAB PUSHAB CLRQ CALLS BLBC MOVZWL	ROOT_DESC, (\$\$ITMBLKPTR)+  #3014660, (\$\$ITMBLKPTR)+  ORIGINAL_RVN, (\$\$ITMBLKPTR)+  (\$\$ITMBLRPTR)+  #3145732, (\$\$ITMBLKPTR)+  MAX_RVN, (\$\$ITMBLKPTR)+  (\$\$ITMBLKPTR)+  #131076, (\$\$ITMBLKPTR)+  DEVCHAR, (\$\$ITMBLKPTR)+  (\$\$ITMBLKPTR)+  ROOT_BUFFER, ROOT_DESC+4  -(\$P)  IOSB  DVI_LIST DYN_DESC -(\$P)	
	0000000G	00 08 50 07	FF60	AFD0FD0FE0DEDE050000000000000000000000000	FB9 38	0008F 00096 00099 0009E	4\$: 5\$: 6\$:	CALLS BLBC MOVZWL BLBS	-(SP) #8, SYS\$GETDVIW STATUS, 4\$ IOSB, STATUS STATUS, 6\$ STATUS	0378 0379 0380 0381
		62		01 82	FB 11	000A3 000A6	58:	CALLS	16	
18	3F	AE 6E	020E0000	04 8F	DO DO	8A000 DA000	6\$:	BBS MOVL	#4. DEVCHAR+3, 7\$ #34471936, NODISK_DESC	0391 0397
	04	6E AE	00000000G	01 824 8F AD AF 1D AF AE AD	BO DO DD	000B7 000BB 000C0		BLBS PUSHL CALLS BRB BBS MOVL CLRL MOVW MOVL PUSHL BRB BLBC MOVL CLRL MOVW	#4. DEVCHAR+3, 7\$ #34471936, NODISK_DESC NODISK_DESC+4 ROOT_DESC, NODISK_DESC ROOT_DESC+4, NODISK_DESC+4 #SET\$_NOTDISK	0398 0399 0401
		28 6E		AE 8F	E9 D0	80000 20000 20000	7\$:	BLBC	DEVCHAR+3, 9\$ #34471936, FOREIGN_DESC	0407 0413
	04	6E AE	04 E8 EC 00000000G	AD AD 8F AE	BO DO DD	000D5 000D6 000DA 000DF 000E5	85:	MOVL PUSHL PUSHAB	DEVCHAR+3, 9\$ #34471936, FOREIGN_DESC FOREIGN_DESC+4 ROOT_DESC, FOREIGN_DESC ROOT_DESC+4, FOREIGN_DESC+4 #SETS_BADFRMT FOREIGN_DESC	0414 0415 0417
		62	0000000G	AE 01 8F 04	FB 04	000E8 000EA 000F0 000F3 000F4		PUSHL PUSHL CALLS RET	#SETS_NOTMOD #4, LIB\$SIGNAL	0418
	00000000v	EF	F4 F0 E8	AD AD O3 AO	DD DD 9F FB 11 04	000F4 000F7 000FA 000FD 00104 00106		PUSHL PUSHAB CALLS BRB RET	MAX_RVN ORIGINAL_RVN ROOT_DESC #3, PROCESS_VOLUME_SET 5\$	0418 0425 0424 0423 0343 0430

; Routine Size: 263 bytes, Routine Base: \$CODE\$ + 0000

```
VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1
                           ROUTINE get_quals =
   This routine interrogates the CLI to get all the qualifiers and
                             values.
                 BEGIN
                           BUILTIN
                                addm.
                                cmpm;
                           LOCAL
                               status,
desc : $BBLOCK[dsc$c_s_bln];
                           $init_dyndesc(desc);
                                                                                 ! Make the desc. dynamic
                             /ACCESSED
                           If clispresent(%ASCID 'ACCESSED')
                               BEGIN
                               LOCAL privs : $BBLOCK[8]; flags[qual_access] = 1;
                                                                        ! Place to store the process privileges
                             Call $SETPRV to get the current privileges of the process. If the process
                             does not have OPER, then signal an error and stop.
                               IF NOT (status = $SETPRV(ENBFLG = 1, PRVADR = 0, PRMFLG = 1,
                                                                                             Enable
                                                                                             No new privileges
                                                                                           ! Get current privileges
                                                            PRVPRV = privs))
                                THEN
                                    BEGIN
                                    SIGNAL (.status);
RETURN false;
                                    END;
                                IF NOT .privs[prv$v_oper]
                                    BEGIN
                                    SIGNAL (set$_operreq);
RETURN false;
                                    END:
                             The process has the correct privilege, so go ahead and get the value
                                acc_value = 3;
                                                                        ! Set up the default
                             If a value was specified, use it; otherwise, use the default.
                                If cli$get_value(%ASCID 'ACCESSED', desc)
```

```
THEN
                                  BEGIN
IF NOT LIB$CVT_DTB(.desc[dsc$w_length],
.desc[dsc$a_pointer],
                                                          acc_value)
                                   THEN
                                       BEGIN
SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                        END;
                                   IF .acc_value LSS 0
OR .acc_value GTR 255
THEN
                                                                                    ! Check that value is in range
                                        SIGNAL(set$_syntax, 1, desc, set$_valerr);
RETURN false;
                                        END:
                                   END:
                              END:
               0508
0509
0510
0511
0512
0513
0514
0515
0516
                            /DATA_CHECK
                         IF cli$present(%ASCID 'DATA_CHECK')
THEN
                              flags[qual_data] = 1;
IF NOT clisget_value(%ASCID 'DATA_CHECK', desc)
                              THEN
                                   dflags[data_write] = 1
                              ELSE
                                   WHILE cli$get_value(%ASCID 'DATA_CHECK', desc) DO
                                   BEGIN
                                  ELSE
                                       BEGIN
SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                   END:
                              END:
                            /[NO]ERASE_ON_DELETE
                         status = clispresent(%ASCID 'ERASE_ON_DELETE');
```

```
SETVOL
VO4-000
```

```
IF .status NEQ cli$_absent THEN
BEGIN
                                   flags[qual_erase] = 1;
flags[qual_erase_val] = .status;
                                 /EXTENSION
                              If cli$present(%ASCID 'EXTENSION')
                             THEN
                                   BEGIN
                                   flags[qual_exte] = 1;
exte_value = 5;
If clisget_value(%ASCID 'EXTENSION', desc)
                                   THEN
                                         If NOT lib$cvt_dtb(.desc[dsc$w_length],
                                                                    .desc[dsc$a_pointer],
                                                                    exte_value)
                                         THEN
                                              BEGIN
SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                              END;
                                         IF .exte_value LSS 0
OR .exte_value GTR 65535
                                         THEN
                                              SIGNAL(set$_syntax, 1, desc, set$_valerr);
                                              RETURN false;
                                              END:
                                         END:
                                   END:
                                /FILE_PROTECTION
                  0584
0585
0586
0588
0588
0591
0593
0593
0596
0597
0598
0599
0601
                             if cli$present(%ASCID 'FILE_PROTECTION')
THEN
                                   BEGIN
                                   BIND
                                         setpro_mask = fprot_value + 2 : WORD,
                                         setpro_prot = fprot_value : WORD;
                                   flags[qual_fprot] = 1;
fprot_value = 0;
                                   IF clispresent(%ASCID 'FILE_PROTECTION.SYSTEM')
                                   THEN
                                         BEGIN
                                        setpro_mask = .setpro_mask OR %X'000f';
If clisget_value(%ASCID 'fILE_PROTECTION.SYSTEM',desc)
THEN setpro_prot = parse_class(desc);
                                   IF clispresent(%ASCID 'FILE_PROTECTION.OWNER')
```

```
VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1
       THEN
             BEGIN
             setpro_mask = .setpro_mask OR %x'00F0';
If cliSget_value(%ASCID 'FILE_PROTECTION.OWNER',desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^4;
      IF clispresent(%ASCID 'FILE_PROTECTION.GROUP')
THEN
             BEGIN
             setpro_mask = .setpro_mask OR %x'OFOO';
If cli$get_value(%ASCID 'FILE_PROTECTION.GROUP',desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^8;
       IF clispresent(%ASCID 'FILE_PROTECTION.WORLD')
       THEN
             BEGIN
             setpro_mask = .setpro_mask OR %X'F000';
If cliSget_value(%ASCID 'FILE_PROTECTION.WORLD',desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^12;
             END:
      END:
   /[NO]HIGHWATER_MARKING
status = clispresent(%ASCID 'HIGHWATER_MARKING');
If .status NEQ clis_absent
THEN
       BEGIN
      flags[qual_fhw] = 1;
flags[qual_fhw_val] = NOT .status;
      END:
   /LABEL
If cli$present(%ASCID 'LABEL')
THEN
       IF cli$get_value(%ASCID 'LABEL', desc)
      THEN
       BEGIN
      flags[qual_label] = 1;
If .desc[dsc$w_length] GTR vcb$s_volname
       THEN
             BEGIN
             SIGNAL(set$_syntax, 1, desc);
RETURN false;
             END:
      label_value[0] = .desc[dsc$w_length];
label_value[1] = .desc[dsc$a_pointer];
$init_dyndesc(desc);
       END:
   /LOG
```

flags[qual\_log] = cli\$present(%ASCID 'LOG');

```
B 2
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                    /[NO]MOUNT_VERIFICATION
                              status = clispresent(%ASCID 'MOUNT_VERIFICATION');
IF .status NEQ clis_absent
THEN
                                    BEGIN
                                    flags[qual_mntver] = 1;
flags[qual_mntver_val] = .status;
                                 /OWNER_UIC
                               IF cli$present(%ASCID 'OWNER_UIC')
THEN
                                    flags[qual_owner] = 1;
IF NOT clisget_value(%ASCID 'OWNER_UIC', desc)
                                         BEGIN
                                         LOCAL
                                         iosb : VECTOR[4, WORD];
status = $GETJPIW(ITMLST = UPLIT(WORD(4, jpi$_uic),
                                                                                     uic_value,
                                                                  IOSB = iosb);
                                         If .status
THEN status = .iosb[0];
                                          IF NOT .status
                                         THEN
                                               BEGIN
                                               SIGNAL (.status);
                                               RETURN false;
                                               END:
                                         END
                                    ELSE parse_uic(desc, uic_value);
END;
                                  /PROTECTION
                               if cli$present(%ASCID 'PROTECTION')
THEN
                                    BEGIN
                                          setpro_mask = vprot_value + 2 : WORD,
                     0708
0709
0710
0711
0712
0713
0714
                                          setpro_prot = vprot_value : WORD;
                                    flags[qual_vprot] = 1;
                                    vprot_value = 0;
                                     If cli$present(%ASCID 'PROTECTION.SYSTEM')
                                     THEN
                                         BEGIN
```

VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1

```
C 2
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                          VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1
                                                                                                                                                                             Page 20 (7)
                                            setpro_mask = .setpro_mask OR %X'000F';
IF clisget_value(%ASCID 'PROTECTION.SYSTEM',desc)
    THEN setpro_prot = parse_class(desc);
                                       IF clispresent(%ASCID 'PROTECTION.OWNER')
                                            BEGIN
                                            setpro_mask = .setpro_mask OR %X'00F0';
If clisget_value(%ASCID 'PROTECTION.OWNER',desc)
                                             THEN setpro_prot = .setpro_prot OR parse_class(desc)^4;
                                       IF clispresent(%ASCID 'PROTECTION.GROUP')
                                       THEN
                                            BEGIN
                                            setpro_mask = .setpro_mask OR %x'OFOO';
If cli$get_value(%ASCID 'PROTECTION.GROUP',desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^8;
                                       If clispresent(%ASCID 'PROTECTION.WORLD')
                                       THEN
                                            BEGIN
                                            setpro_mask = .setpro_mask OR %x'f000';
If cli$get_value(%ASCID 'PROTECTION.WORLD'.desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^12;
                                            END:
                                       END:
                                    /[NO]REBUILD
                                 flags[qual_rebuild] = 1;
                                       flags[qual_rebuild_val] = .status;
                                    /RETENTION
                                 IF cli$present(%ASCID 'RETENTION')
THEN
                      0758
0759
0760
                                       LOCAL temp_desc : VECTOR[2];
                      0761
                                       flags[qual_retent] = 1;
                                       CH$fILL(0, 8, retmin_value);
CH$fILL(0, 8, retmax_value);
                                                                                                       Zero minimum value
                                                                                                     ! Zero maximum value
                                    If a minimum value was not supplied, signal an error
```

IF NOT cli\$get\_value(%ASCID 'RETENTION', desc)

THEN

BEGIN

/[NO]UNLOAD

status = clispresent(%ASCID 'UNLOAD');

```
IF .status NEQ cli$_absent THEN
BEGIN
              flags[qual_unl] = 1;
flags[qual_unl_val] = .status;
           /USER_NAME
         If clispresent(%ASCID 'USER_NAME')
         THEN
              flags[qual_username] = 1;
IF NOT clisget_value(%ASCID 'USER_NAME', desc)
                  BEGIN
                  LOCAL
                  .status
                   THEN status = .iosb[0];
IF_NOT .status
                   THEN
                       BEGIN
                       SIGNAL (.status);
                       RETURN false;
                       END:
                  user_value[1] = user_label;
              ELSE
                  BEGIN
                   IF .desc[dsc$w_length] GTR hm2$s_ownername
                   THEN
                       BEGIN
                       SIGNAL(set$_syntax, 1, desc);
RETURN false;
                       END:
                  user_value[0] = .desc[dsc$w_length];
user_value[1] = .desc[dsc$a_pointer];
$init_dyndesc(desc);
                   END:
              END:
            /WINDOWS
         BEGIN
```

```
SETVOL
VO4-000
                                                                                      16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
                                                                                                                      VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1
                                                                                                                                                                      Page (7)
                                     flags[qual_windows] = 1;
window_value = 7;
If cli$get_value(%ASCID 'WINDOWS', desc)
   893
894
895
896
897
898
899
901
903
907
908
909
911
913
                     0887
0888
0889
0890
0891
0892
0893
0894
0895
                                      THEN
                                           BEGIN
                                          THEN
                     0896
0897
0898
0899
0900
0901
0902
0903
0904
0905
                                                BEGIN
                                                SIGNAL(set$_syntax, 1, desc);
                                                RETURN false:
                                                END;
                                           IF .window_value LSS 7
OR .window_value GTR 80
                                           THEN
                                                BEGIN
                                                SIGNAL(set$_syntax, 1, desc, set$_valerr);
                                                RETURN false:
                                                END:
                      0907
                                           END:
    914
                      0908
                                     END:
    915
                      0909
                             2 RETURN true;
1 END;
   916
917
                      0910
                                                                                                   .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                43 43 41
010E0008
                                                                                00020 P.AAE:
00028 P.AAD:
                                                53
                                                     53
                                                           45
                                                                                                   .ASCII
                                                                                                             \ACCESSED\
17694728
                                                                                                   .LONG
                                                                                                   ADDRESS P.AAE
                                                                   00000000
                                                                                00020
                                                                                00030 P.AAG:
                                                                                                             \ACCESSED\
17694728
                                                53
                                                     53
                                                           45
                                                                                                   .ASCII
                                                                   010E0008
                                                                                                   .LONG
                                                                   00000000
                                                                                00030
                                                                                                    ADDRESS P.AAG
                                                                                00040 P.AAI:
0004C P.AAH:
                                                                                                             \DATA_CHECK\<0><0>
17694730
                                           48
                                                43
                                                     5F
                                43
                                     45
                                                                                                   .ASCII
                                                                   010E000A
                                                                                                   . LONG
                                                                                00050
                                                                                                    ADDRESS P.AAI
                                                                   00000000
                                                                                                             \DATA_CHECK\<0><0>
17694730
                                                                                 00054
                                                                                        P.AAK:
                                                     5F
                                                                                                   .ASCII
                                                                                00060 P.AAJ:
                                                                   010E000A
                                                                                                   .LONG
                                                                   00000000
                                                                                00064
                                                                                                    .ADDRESS P.AAK
                                                                                 00068
                                                                                                             \DATA_CHECK\<0><0>
17694730
                                           48
                                                43
                                                     5F
                                                                                        P.AAM:
                                                                                                   .ASCII
                                                                                        P.AAL:
                                                                   010E000A
                                                                                                   .LONG
                                                                                00074
                                                                   00000000
                                                                                00078
                                                                                                    .ADDRESS P.AAM
                                                                                        P.AAN:
                                                                                                              \WRITE\
                                                                                                   .ASCII
                                                                                                    .BLKB
                                                                                        P.AAO:
                                                                                                   .ASCII
                                                                                                              \READ\
                                                                                        P.AAP:
                                                                                                              \NOWRITE\
                                                                                                   .ASCII
                                                                                                    BLKB
                                                                52
                                                                     4F
                                                                                        P.AAQ:
                                                                                                   .ASCII
                                                                                                              \NOREAD\
                                                                                                    .BLKB
                                                                                        P.AAS:
                                                                                                   .ASCII
                                5F
                                                5F
                                                                                                              \ERASE_ON_DELETE\<0>
                                                                   010E000F
                                                                                                   .LONG
                                                                                                              17694735
                                                                      000000
                                                                                                   .ADDRESS P.AAS
                                                                                                             \EXTENSION\<0><0><0>
                                                53
                                                           45
                                                                54
                                                                                 000B0
                                                     4E
                                                                                        P.AAU:
                                                                                                   .ASCII
```

SET VO4	VOL -000												G 2 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page (24)
4E	46	40	00	00	00	4E	4F	49	53	4E	45	010E0009 000000000 54 58 45 010E0009 000000000	000BC P.AAT: .LONG 17694729 000C0 .ADDRESS P.AAU 000C4 P.AAW: .ASCII \EXTENSION\<0><0><0> 000D0 P.AAV: .LONG 17694729 000D4 .ADDRESS P.AAW	
4E	4F	49	54	43	45	54	4F 00	52 40	50 50 45	5F 5F 54	45 53	010E000F 0000000000 40 49 46 59 53 2E	000D8 P.AAY: .ASCII \FILE_PROTECTION\<0> 000E7 000E8 P.AAX: .LONG 17694735 000EC .ADDRESS P.AAY 000F0 P.ABA: .ASCII \FILE_PROTECTION.SYSTEM\<0><0> 000FF	
4E	4F	49	54	43	45	54 00	4F 00	52 40	50 45	5F 54	45 53	00000000° 40 49 46 59 53 2E 010E0016	00108 P.AAZ: .LONG 17694742 0010C .ADDRESS P.ABA 00110 P.ABC: .ASCII \FILE_PROTECTION.SYSTEM\<0><0> 0011F 00128 P.ABB: .LONG 17694742	
4E	4F	49	54		45		4F 00	52		5F 45		010E0015 00000000	0012C .ADDRESS P.ABC 00130 P.ABE: .ASCII \FILE_PROTECTION.OWNER\<0><0> 0013F 00148 P.ABD: .LONG 17694741 .ADDRESS P.ABE	
4E	4F	49	54	43	45	54	4F 00 4F			5F 45		40 49 46 57 4F 2E 010E0015 00000000	00150 P.ABG: .ASCII \FILE_PROTECTION.OWNER\<0><0><0> 0015F 00168 P.ABF: .LONG 17694741 0016C .ADDRESS P.ABG 00170 P.ABI: .ASCII \FILE_PROTECTION.GROUP\<0><0><0>	
4E	4F	49		43		54	4F 00	52	50 50	5F 55	4F	4C 49 46 010E0015 000000000 4C 49 46 52 47 2E	0017F 00188 P.ABH: .LONG 17694741 0018C .ADDRESS P.ABI 00190 P.ABK: .ASCII \FILE_PROTECTION.GROUP\<0><0><0>	
4E	4F	49	54	43	45							010E0015 000000000 4C 49 46 4F 57 2E	001A8 P.ABJ: .LONG 17694741 001AC .ADDRESS P.ABK 001BO P.ABM: .ASCII \FILE_PROTECTION.WORLD\<0><0><0> 001BF	
4E	4F	49	54	43	45	54	4F 00	52	50 44	5F 4C	45 52	010E0015 000000000 4C 49 46 4F 57 2E 010E0015 00000000	001C8 P.ABL: .LONG 17694741 001CC .ADDRESS P.ABM 001D0 P.ABO: .ASCII \FILE_PROTECTION.WORLD\<0><0><0> 001DF 001E8 P.ABN: .LONG 17694741	
49	4B	52	41	40	5F	52	45	54	41	57 00	48	47 49 48 00 47 4E 010E0011 00000000	001EC .ADDRESS P.ABO 001FO P.ABQ: .ASCII \HIGHWATER_MARKING\<0><0><0> 001FF 00204 P.ABP: .LONG 17694737 00208 .ADDRESS P.ABQ	
							00	00	00	40	45	010E0005 000000000 42 41 40	0020C P.ABS: .ASCII \LABEL\<0><0> 00214 P.ABR: .LONG 17694725 00218 .ADDRESS P.ABS 0021C P.ABU: .ASCII \LABEL\<0><0> 00224 P.ABT: .LONG 17694725	
54	41	43	49	46	49	52	45	56	SF	54	00 4E	010E0005 00000000 47 4F 4C 010E0003 000000000 55 4F 4D	00228 .ADDRESS P.ABU 0022C P.ABW: .ASCII \LOG\<0> 00230 P.ABV: .LONG 17694723 00234 .ADDRESS P.ABW 00238 P.ABY: .ASCII \MOUNT_VERIFICATION\<0><0>	
1										00	00 00	4E 4F 49 010E0012	00247 0024C P.ABX: .LONG 17694738	

SET VO4	VOL -000												H 2 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 25 (7)
			00	00	00	43	49	55	5F	52	45	4E 57 4F	00250 .ADDRESS P.ABY 00254 P.ACA: .ASCII \OWNER_UIC\<0><0><0> 00260 P.ABZ: .LONG 17694729	1
			00	00	00	43	49	55	5F	52	45	00000000° 4E 57 4F 010E0009 00000000° 0304 0004	00264 .ADDRESS P.ACA 00268 P.ACC: .ASCII \OWNER_UIC\<0><0><0> 00274 P.ACB: .LONG 17694729 00278 .ADDRESS P.ACC	
			00	00	4E	4F	49	54	43	000	0000	0 00000000	0027C P.ACD: .WORD 4, 772 00280 .ADDRESS UIC_VALUE 00284 .LONG 0, 0 0028C P.ACF: .ASCII \PROTECTION\<0><0>	
54	53	59	53	2E	4E	4F	49	54	43	45	54	00000000° 4F 52 50 00 4D 45	00298 P.ACE: .LONG 17694730 0029C .ADDRESS P.ACF 002AO P.ACH: .ASCII \PROTECTION.SYSTEM\<0><0><0>	
54	53	59	53	2E	4E	4F	49	54	43	45	54	010E0011 000000000 4F 52 50	00284 P.ACG: .LONG 17694737 00288 .ADDRESS P.ACH 0028C P.ACJ: .ASCII \PROTECTION.SYSTEM\<0><0><0>	
45	4E	57	45	2E	4F	45	49	54	43	45	54	00 40 45 010E0011 000000000 4F 52 50	002CB 002DO P.ACI: .LONG 17694737 002D4 .ADDRESS P.ACJ 002D8 P.ACL: .ASCII \PROTECTION.OWNER\	
						Ï						010E0010 00000000	002E7 002E8 P.ACK: .LONG 17694736 002EC .ADDRESS P.ACL	
45	4E	57	4F	SE	4E	4F	49	54	43	45	54	010E0010 00000000	002F0 P.ACN: .ASCII \PROTECTION.OWNER\ 002FF 00300 P.ACM: .LONG 17694736 00304 .ADDRESS P.ACN	
55	4F	52	47	SE.	4E	4F	49	54	43	45	54	4F 52 50	00308 P.ACP: .ASCII \PROTECTION.GROUP\ 00317 00318 P.ACO: .LONG 17694736	
55	4F	52	47	2E	4E	4F	49	54	43	45	54	010E0010 000000000 4F 52 50 50	0031C .ADDRESS P.ACP 00320 P.ACR: .ASCII \PROTECTION.GROUP\ 0032F	
40	52	4F	57	2E	4E	4F	49	54	43	45	54	010E0010 000000000 4F 52 50	00330 P.ACQ: .LONG 17694736 00334 .ADDRESS P.ACR 00338 P.ACT: .ASCII \PROTECTION.WORLD\	
40	52	4F	57	2E	4E	4F	49	54	43	45	54	010E0010 00000000 4F 52 50	00347 00348 P.ACS: .LONG 17694736 0034C .ADDRESS P.ACT 00350 P.ACV: .ASCII \PROTECTION.WORLD\	
							00	44	40	49	55	010E0010 000000000 42 45 52	0035F 00360 P.ACU: .LONG 17694736 00364 .ADDRESS P.ACV 00368 P.ACX: .ASCII \REBUILD\<0>	
			00	00	00	4E	4F	49	54	4E	45	010E0007 000000000 54 45 52	00370 P.ACW: .LONG 17694727 00374 .ADDRESS P.ACX 00378 P.ACZ: .ASCII \RETENTION\<0><0><0>	
			00	00	00	4E	4F	49	54	4E	45	00000000° 54 45 52 010F0009	00384 P.ACY: .LONG 17694729 00388 .ADDRESS P.ACZ 0038C P.ADB: .ASCII \RETENTION\<0><0><0> 00398 P.ADA: .LONG 17694729	
			00	00	00	4E	4F	49	54	4E	45	54 45 52 010E0009 00000000	0039C .ADDRESS P.ADB 003AO P.ADD: .ASCII \RETENTION\<0><0> 003AC P.ADC: .LONG 17694729 003BO .ADDRESS P.ADD	

SETVOL V04-000													15	-Sep-19 -Sep-19	84 01:01 84 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page	(7)
					00	00	44	41	4F	4C 01	4E 5	5 00	384 38C	P.ADF: P.ADE:	.ASCII	\UNL0	OAD\<0><0>	;	
	00	00	00	45	40	41	4E	5.	52	45 01	00000 53 0E000	0°00 5 00 9 00	3C0 3C4 3D0	P.ADH: P.ADG:	.ADDRES	S P. AD \USER 17694	R NAME \<0><0><0>		
	00	00	00	45	40	41	4E	5F	52	4500	00000 0E000	5 00	300 304 308 354	P.ADJ:	.ADDRES	S P.AD	DH R_NAME\<0><0><0> 4729		
					00	53	57	4F	44	4E 00	00000	7 00	3E4 3E8 3EC	P.ADL:	.ADDRES	S P.AD	PR NAME \<0><0><0> 4729 0H R NAME \<0><0><0> 4729 0J 00US \<0> 4727 0L 00US \<0>		
					00	53	57	4F	44	4E 01	0E000 00000 49 0E000 00000	0' 00 7' 00 0' 00	3F4 3F8 3FC 404 408	P.ADN: P.ADM:	.ADDRES .ASCII .LONG .ADDRES	S P.AD 17694 S P.AD	00WS\<0> 4727 DL DOWS\<0> 4727 DN		
														SETPRO SETPRO SETPRO			FPROT_VALUE+2 FPROT_VALUE VPROT_VALUE+2 VPROT_VALUE SETPRV, SYS\$GETJPIW		
															.PSECT		E\$,NOWRT,2		
								5B 55A 558 57	00000 00000 00000 00000 00000	0006 0006 0000	00 EF EF	9E 00	0002 0009 0010 0017	GET_QUA	S: .WORD MOVAB MOVAB MOVAB MOVAB MOVAB SUBL2 CALLS BLBC BISB2 PUSHAB CALLS BLBC PUSHAB CALLS CALLS	Save CLISC CLISF FLAGS RETMI P.AAD	R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 GET_VALUE, R11 PRESENT, R10 S, R9 IN_VALUE, R8 D, R7 SP 71936, DESC	0	)43
						2	0	ÁĒ	020E0	000	8F AE	DO 00	028		MOVL	#3447 DESC4 R7	71936, DESC	:	)44
								6A 62 69			01	DD 00 FB 00 F9 00	033 035 038		PUSHL CALLS BLBC	#1, C	CLISPRESENT	: 04	145
								69		18	50 02 AE 01	88 00 9F 00	03B 03E		BISB2 PUSHAB	PRIVS	LAGS	: 04	45
					000	0000	0G	7E 00 56 03			01	7D 00 FB 00 DO 00 E8 00	1028 1030 1033 1033 1038 1038 1043 1043 1044 1053 1068 1068 1068 1068 1068 1068 1068 1068		MOVQ CALLS MOVL BLBS	NU,	CLISPRESENT 7\$ FLAGS -(SP) SYSSSETPRV STATUS US, 1\$		
				09		1	A	AE	00000	0006	02 8F	EO OC	056 058	1\$:	BBS PUSHL	#2. F	PRIVS+2, 2\$ B_OPERRÉQ	04	47
						E	c	<b>8</b> A		20	4BD 03	31 00 00 00 9F 00	061	2\$:	BRW MOVL PUSHAR	49\$	ACC_VALUE	:	48
								6B 29		20 10 EC	A7 02 50 A8	9F 00 FB 00 E9 00 9F 00	006B 006E 0071		PUSHAB CALLS BLBC PUSHAB	P.AAF #2. C RO. 7 ACC	PRIVS+2, 2\$ \$_OPERRÉQ  ACC_VALUE  CLISGET_VALUE  7\$ VALUE  44  -(SP) LIBSCVT_DTB		
					000	00000	006	7E 00		58 28	AE O3	DD 00 3C 00 FB 00	077 07A 07E		PUSHL MOVZWL CALLS	DESC.	-(SP) LIB\$CVT_DTB	04	49

SETVOL VO4-000								16	-Sep	1984 01:01 1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page	(7)
				03	0	50 4F4	E8	00085	35:	BLBS	RO.	45		
				50	EC	A8	DO 18	0008B 0008F	3\$: 4\$:	MOVL BGEQ	ACC	_VALUE, RO		0498
			000000FF	8F	0	50 50 F4	31 01	00091 00094	5\$: 6\$:	BLBS BRWLQ BRWLAB BRWLQ BRWLAB BRWLQ BRWLAB BRISHAB CBLSSHAB CBLSS	57\$ RO.	_VALUE, RO		0499
					24	A7	9F	0009B 0009D	75:	PUSHAB	P.A	AH		0511
				6A 5D 69		50	FB E9	000A0 000A3		BLBC	RO.	CLISPRESENT 12\$ FLAGS CLISGET_VALUE 8\$ DFLAGS		
				04	20 38	AE	9F	000A6 000A9		PUSHAB	DES	C PLAGS		0514 0515
				6B	38	02 50	FB	000AC 000AF 000B2		CALLS	#2,	CLISGET_VALUE		
			04	6B 06 A9		04	88	000B2 000B5 000B9		BLBS BISB2	RO.	CLISGET_VALUE 85 DFLAGS		0517
					20	48 AE	9F	000B9 000BB	8\$:	PUSHAB	DES	c		0519
				6B	40	02 02	FB	000BB 000BE 000C1 000C4		CALLS	W2,	AL CLISGET_VALUE		
				6B 3C 54 BE	20	AE A7 02 50 AE 54	3C	00007		MOVZWL	RO, DES	CLISGET_VALUE 12\$ 12\$ 12\$ 12\$ 12\$ 12\$ 12\$ 12\$ 12\$ 12\$		0521
	54	A7	24				29	000CB 000D1 000D3 000D7		CMPC3 BNEQ	84. 9\$	aDESC+4, P.AAN		
			04	A9		0424602446 00000000000000000000000000000	88 11	000D7		BISB2 BRB	8\$	DFLAGS	:	0523
	50	A7	24	BE		06	29 12	nnnna	9\$:	CMPC3 BNEQ	PE 64	MUPSITA P. AAU	:	0524
			04	A9		02	88			BISB2 BRB	#2. 8\$	DFLAGS adesc+4, P.AAP	:	0526
	60	A7	24	BE		54	29 12	000E7 000ED	10\$:	CMPC3 BNEQ	113			0527
			04	A9		10	88	000EF 000F3		BISB2 BRB		, DFLAGS		0529
	68	A7	24	BE		54 8B	29 12	000F5 000FB	11\$:	CMPC3 BNEQ	R4.	aDESC+4, P.AAQ	:	0530
			04	A9		54 88 08 88 C7	29 12 88 11	000FD 00101		BISB2 BRB	#8. 8\$	DFLAGS		0532
				6A	0080	C7 01	9F FB	00103	12\$:	PUSHAB	P. A	AR CLISPRESENT		0544
			000000006	6A 56 8F		50	D0	000F5 000FB 000FD 00101 00103 00107 0010A		MOVL	RO.	DFLAGS  AR CLISPRESENT STATUS TUS, #CLIS_ABSENT		0545
			01			0A 10	13	111111164		BEQL BISB2	138	. FLAGS+1	:	
01 A9		01		A9 05	0094	56	88 F0 9F	0011A 00120	135:	INSV	STA P.A	TUS, #5, #1, FLAGS+1		0548 0549 0555
				6A		01 50		00124		CALLS	#1. RO.	CLISPRESENT 175	•	
			000000006	6A 69 00		08	FB E9 88 D0 9F	00116 0011A 00120 00124 00127 0012A 0012D		BISB2	#8.	FLAGS EXTE VALUE		0558 0559 0560
				•	00A8	AE C7	9F	11111 364		PUSHAB	DES	C AV		0560
				6B 2F	oono	ŎŻ	FB	0013B		CALLS	#2. RO	CLISGET_VALUE		
				-	000000006	ÓŎ AE AE	FB E9 9F DD 3C	00137 0013B 0013E 00141 00147 0014A		PUSHAB	EXT	TUS, #CLIS_ABSENT  FLAGS+1  CLISPRESENT  178  FLAGS  EXTE_VALUE  CLISGET_VALUE  178  E_VALUE  CT4  CC, -(SP)		0563 0564 0563
				7E	28	AE	30	0014A		MOVZWL	DES	C, -(SP)	:	0563

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						16-Sei 14-Sei	0-1984 01:01 0-1984 12:09	:55 VAX-11 Bliss-32 V4.0-742 :22 CCLIUTL.SRCJSETVOLUME.B32;1	Page 28 (7)
	0000000G	00		03	FB 00	145	CALLS	#3, LIBSCVT_DTB	:
		50	000000006	0424	58 00 31 00 18 00 31 00	14E 158 158 162 164 165 167 168 170 177 17A 17A 18A 18A 18A 18B 19B 19B 19B 19B 19B 19B 19B 19B 19B	CALLS BLBS BRW  MOVL BGEQ BRW CMPL BGTR PUSHAB CALLS BLBS BRW BISB2 CLRL PUSHAB	535	0571
		,,		043C	18 00	162	BGEQ	EXTE_VALUE, RO	: 03/1
	0000FFFF	8F		50	D1 001	164 158 167 168	CMPL	RO. #65535	0572
		64	0000	C7 01 50	9F 00	70 178	PUSHAB	D AAY	0584
		6A 03		50 0087	E8 00	77	BLBS	W1, CLISPRESENT R0, 18\$	
		69	FO	00B7	88 00	17D 18\$	BISB2	#1, CLISPRESENT RO, 18\$ 22\$ #16, FLAGS FPROT_VALUE P.AAZ	0591 0592 0594
		64	00E0	C7	9F 00	183	PUSHAB	P.AAZ #1. CLISPRESENT	0594
	F2	6A 1F A8		50 0F	E9 00	18A	BLBC BISB2	#1, CLISPRESENT RO, 198 #15, SETPRO_MASK	0597
			0100	AE C7	9F 00	191	PUSHAB	#1, CLISPRESENT R0, 19\$ #15, SETPRO_MASK DESC P.ABB	0597 0598
		6B 0E		02	FB 00	198 198	CALLS BLBC BISB2 PUSHAB PUSHAB CALLS BLBC PUSHAB	#/ [IINGFI VALUE	
	00000000v		20	AC050FE720E10710FE720E1	9F B 000 9F B 0	19E	PUSHAB	RO. 19\$ DESC #1. PARSE_CLASS RO. SETPRO_PROT P.ABD	0599
	FO	EF A8	0120	50	BO 001	1A8 1AC 198	CALLS MOVW PUSHAB	RO, SETPRO_PROT	0601
		6A 23 A8		01 50	FB 00	1B0 1B3	CALLS	RO. 20\$	
	F2	A8	F0 20 0140	8F AE	88 00°	186 188	BISB2 PUSHAB	#240, SETPRO_MASK DESC P.ABF	0604
		6B 11	0140	C7	9F 00'	IBE IC2	PUSHAB	#7 CLINGET VALUE	
			20	50 AE	FB 001 FB 001 FB 001	105	CALLS BLBC BISB2 PUSHAB PUSHAB CALLS BLBC PUSHAB	RO, 20\$ DESC	: 0606
	00000000V	50 A8			FB 00	ICB ID2	MULLS	#1, PARSE_CLASS #16, RO	
	F0		0160	C?	9F 00	109 20\$	BISW2 PUSHAB	RO, 20\$ DESC #1, PARSE_CLASS #16, RO RO, SETPRO_PROT P.ABH	0608
	.,	6A 23 A8		50	E9 00	IDD IEQ	BLBC	#1, CLISPRESENT RO, 21\$	0411
	F3	AO	0180	AE	C4 001 A8 001 FB 001 E9 001 B8 001 9F 001	E7	PUSHAB	#1, CLISPRESENT RO, 21\$ #15, SETPRO_MASK+1 DESC P.ABJ	0611
		6B 12	0100	ŠŠ	FB 00	EÉ	CALLS	#2. CLISGET_VALUE	
	00000000v		20	AE	9F 00	F4	PUSHAB	#2, CLISGET_VALUE RO, 21\$ DESC #1, PARSE_CLASS	0613
50	FO	50 A8		Ŏ8	78 00	IFE 202	ASHL	#1, PARSE_CLASS #8, R0, R0 R0, SETPRO_PROT P.ABL	
			01A0	Ć7	9F 00	206 21\$	PUSHAB	P. ABL #1. CLISPRESENT	0615
	F3	6A 24 A8	FO	50 8F	E9 00	20D 210	BLBC BISB2	RO. 22\$ #240. SETPRO MASK+1	0618
			01C0	10071050FE7205A08071058AC720	FB 000 FB 000	183 186 188 188 188 188 188 188 188 188 188	CALLS MULL2 BISW2 PUSHAB CALLS BISB2 PUSHAB CALLS BLBC PUSHAB CALLS ASHL BISW2 PUSHAB CALLS ASHL BISW2 PUSHAB CALLS BISW2	DESC P. ABN	0618
		6B 12		02 50	FB 00	21C 21F	BLBC	#1, CLISPRESENT R0, 22\$ #240, SETPRO_MASK+1 DESC P.ABN #2, CLISGET_VALUE R0, 22\$	

ETVOL 04-000						1	2 5-Sep- 4-Sep-	1984 01:01 1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page	(7)
		50 0000	00000V EF	20	AE 01 0C	9F 00222 FB 00225 78 00220 A8 00230 9F 00234		PUSHAB CALLS ASHL	DESC #12.	PARSE_CLASS RO, RO SETPRO_PROT P CLI\$PRESENT STATUS US, #CLI\$_ABSENT	: 06	620
			FO A8 6A 56 00000G 8F	01DC	50 C7 01	A8 00230 9F 00234 FB 00238 D0 0023B	22\$:	PUSHAB CALLS	P.AB	SETPRO_PROT P CLISPRESENT	06	627
		0000	00000G 8F		56 0F	D1 0023E		CMPL	STAT	US, #CLIS_ABSENT	00	628
			01 A9 50 07	40	8F 56	88 00247 D2 0024C F0 0024F		BISB2 MCOML	#64	FLAGS+1 US. RO	00	)631 )632
01	A9	01	07 6A 2E	01EC	50 C7 01	FO 0024F 9F 00255 FB 00259 E9 00250	23\$:	INSV PUSHAB CALLS	P.AB	FLAGS+1 US. RO #7, #1, FLAGS+1 R CLISPRESENT	:	638
				01FC	50 AE C7	9F 0025F 9F 00262		PUSHAB PUSHAB CALLS	M1. RO. DESC P.AB W2. RO.	T CLISGET VALUE	06	)640
			68 21 69 00	20	50 20 AE	E9 00269 88 00260		PUSHAS PU	RO. #32. DESC	T CLI\$GET_VALUE 25\$ FLAGS , #12	00	)643 )644
			F4 A8 F8 A8 20 AE	20	307 AE AE	3C 00278	24\$:	BRW MOVZWL MOVL	53\$ DESC DESC	, LABEL VALUE +4, LABEL VALUE+4 71936, DESC +4	00	)65 )65 )65
			20 AE	24	8F AE	DO 0027D DO 00282 D4 0028A		MOVL	#344 DESC	71936, DESC +4		
		•	6A 06	0208	AE AE 8F AE C7 01 50	9F 0028D FB 00291	25\$:	PUSHAB	P.AB	CLISPRESENT	: 00	)65
	69	01		0224	C7	F0 00294 9F 00299		PUSHAB	P. AB	CLISPRESENT #6, #1, FLAGS X	00	)66
		0000	6A 56 00000G 8F		50 56	9F 00299 PB 0029D D0 002A0 D1 002A3 13 002AA 88 002AC F0 002B0 9F 002B6 FB 002BA E9 002BD 88 002C0		MOVL	RO.	CLISPRESENT STATUS US, #CLIS_ABSENT  FLAGS+2 US, #1, #1, FLAGS+2  CLISPRESENT 29\$ , FLAGS  BLISGET_VALUE 28\$ )  SYSSGETJPIW STATUS US, 27\$ , STATUS US, 29\$  VALUE	06	)664
02	A9	01	02 A9		0A 01 56	13 002AA 88 002AC F0 002B0		BISB2 INSV	#1.	FLAGS+2 US. #1. #1. FLAGS+2	06	)667 )668 )674
				0238	C7 01	9F 002B6 FB 002BA	26\$:	PUSHAB	P.AB	Z CLISPRESENT	06	674
			6A 45 69	80	50 8F	FB 002BA E9 002BD 88 002C0 9F 002C4		BLBC BISB2	RO. #128	29\$ , FLAGS	06	677
			40	80 20 0240	8F AE C7	9F 002C7		PUSHAB	P.AC	B CLISCET VALUE	. 00	010
			6B 24		50 7E	FB 002CB E8 002CE 7C 002D1		BLBS	RO.	28\$	06	687
				0254	AE C7	9F 002D3 9F 002D6		PUSHAB PUSHAB	IOSB P.AC	0		
		000	000000 00		7E	7C 002DA 04 002DC		CLRQ	-(SP	) ) cvc*ceT (DIU		
		0000	00000G 00 56 07		50	FB 002DE D0 002E5 F9 002F8		MOVL	RO.	STATUS US 27\$	06	688
			56 13	18	50 56 AE 56	3C 002EB E8 002EF 31 002F2		MOVZWL	IOSB	STATUS US. 29\$	06	688 689 690 693 697
				000000006	UZZA	31 002F2 9F 002F5	27 <b>\$</b> :	BRW PUSHAB	48\$ UIC_	VALUE	: 06	693 697

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					1	6-Sep-1 4-Sep-1	984 01:01 984 12:09	SS VAX-11 Bliss-32 V4.0-742 CCLIUTL.SRCJSETVOLUME.B32;1	Page 30 (7)
	0000000G	00	24 0270	AE 02 C7	9F 002FE 9F 00305	29\$:	PUSHAB CALLS PUSHAB	DESC #2, PARSE_UIC P.ACE	0703
		6A 03		50			CALLS PUSHAB CALLS BLBS BRW BISB2	#1. CLISPRESENT	
	01	A9	028C	01 00 00 00 00 00 00 00 00 00 00 00 00 0	FB 00309 E8 00306 31 00306 88 00312 D4 00316 9F 00319		PLICHAR	RO. 30\$ 34\$ #4, FLAGS+1 VPROT_VALUE P.ACG	0710 0711 0713
		6A 1F A8	0200	01 50	FB 00310		CALLS	#1, CLISPRESENT	
	FE	A8	20 02A8	OF AE C7	9F 00327 9F 00327		CALLS BLBC BISB2 PUSHAB PUSHAB CALLS BLBC PUSHAB	W15, SETPRO_MASK DESC P.ACI	0716
		6B 0E		50	FB 0032E E9 00331		CALLS BLBC	#2. CLISGET_VALUE RO. 31\$ DESC	2710
	00000000V	EF A8	20	01 50	9F 00337 B0 00338 9F 00342		CALLS MOVW PUSHAB	#1, PARSE_CLASS	0718
		6A 23 A8	0200	C7 01	9F 00346 FB 00346 E9 00349		PUSHAB	RO, SETPRO_PROT P.ACK #1, CLISPRESENT RO, 32\$	0720
	FE	Ä8	F0 20 0208	8F AE	88 00340 9F 00351		CALLS BLBC BISB2 PUSHAB	#240, SETPRO_MASK DESC P.ACM	0723 0724
		6B 11		02	9F 00354 FB 00358 E9 00358 9F 00358		CALLS	#2. CLISGET VALUE	
	0000000v	EF 50 A8	20	AE 01	9F 0035E FB 00361 C4 00368		PUSHAB CALLS MULL 2	RO, 32\$ DESC #1. PARSE_CLASS #16. RO	0725
	FC		02F0	50 C7	A8 0036E	32\$:	PUSHAB CALLS BLBC PUSHAB CALLS MULL2 BISW2 PUSHAB	RO, SETPRO_PROT	0727
	FF	6A 23 A8		50 OF	FB 00373 E9 00376 88 00379 9F 00370		BLBC BISB2	#1, CLISPRESENT R0, 33\$ #15, SETPRO_MASK+1 DESC P.ACQ	0730
			0308	AE C7	88 00379 9F 00370 9F 00380 FB 00387		PUSHAB CALLS BISB2 PUSHAB CALLS BLBC PUSHAB CALLS BLBC PUSHAB CALLS ASHL BISW2 PUSHAB	P.ACQ #2, CLISGET_VALUE	0730 0731
		6B 12	20	50 AE	AR 00284		BLBC PUSHAB	RO, 338 DESC	0732
50	00000000V FC	50 A8		08 50	9F 0038A FB 0038A 78 0039A A8 0039A 9F 003A E9 003A 88 003A 9F 003A		ASHL BISW2	#1, PARSE CLASS #8, R0, R0 R0, SETPRO_PROT P.ACS	
		6A 24 A8	0320	C7 01 50	9F 00390 FB 003A0	33\$:	PUSHAB CALLS BLBC	P.ACS #1, CLISPRESENT R0, 34\$	0734
	FF	A8	F0 20 0338	8F	88 003A6		BISB2 PUSHAB	#240, SETPRO_MASK+1 DESC P.ACU	0737
		6B 12		02	9F 003AE 9F 003AE FB 003BE E9 003BE		CALLS	#2. CLISGET VALUE	
50	0000000v	EF 50 A8	20	058 ACC05 AC	9F 003B8		PUSHAB CALLS BISB2 PUSHAB CALLS BLBC PUSHAB CALLS BLBC PUSHAB CALLS ASHL BISW2 PUSHAB	DESC	0739
,,,	FC		0348	50	FB 003BE 78 003C A8 003C 9F 003C FB 003C	345:	BISW2 PUSHAB	#1 PARSE CLASS #12, RO, RO RO, SETPRO_PROT P.ACU #1, CLISPRESENT	0746
		6A		וע	רם טטטנו		CALLS	WI, CLISPRESENI	•

SETVOL VO4-000									1	Sep-	1984 01:01 1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 3
				0000000G	56 8F		50	D0	003D1 003D4		MOVL	RO, S	STATUS US, #CLIS_ABSENT	: 074
02	A9		01	02	A9 05	035C	10 56 C?	88 F0 9F	003DB 003DD 003E1 003E7	35\$:	MOVL CMPL BEQL BISB2 INSV PUSHAB CALLS BLBC BISB2 MOVC5		FLAGS+2 US, #5, #1, FLAGS+2 VCLISPRESENT 40S FLAGS+1 (SP), #0, #8, RETMIN_VALUE	075 075 075
	08		00	01	6A 69 A9 6E		50	E9	003EE 003F1		BLBC BISB2	RO. 4	FLAGS+1	076 076
	08		00		6E		68	20	003FA		MOVC5		(SP), #0, #8, RETMAX_VALUE	076
	00		00		OL	08 20 0370	A8		00400					077
					6B 03	0370	00 68 00 A8 C7 02	9F FB E8	00405 00409 00400		PUSHAB PUSHAB CALLS BLBS BRW PUSHAB CALLS MOVL BLBS PUSHL BRB MOVC3 PUSHAB CALLS BLBC PUSHAB CALLS BLBC PUSHAB CALLS MOVL	DESC P.ADA #2. 0 R0. 3	LISGET_VALUE	
				000000006	00	18 24	016D AE AE 02 50	9F 9F	0040F 00412 00415	36\$:	PUSHAB PUSHAB	TEMP_ DESC	DESC LIBSCVT_DTIME STATUS US, 37\$  TEMP_DESC, RETMIN_VALUE CLISGET_VALUE 41\$ DESC LIBSCVT_DTIME	078
					56		50 56	D0	0041F 00422		MOVL BLBS	RO, S	STATUS US, 37\$	078
			68	18	AE		28	11	00427 00429	375:	BRB MOVC3	38\$	TEMP DESC. RETMIN VALUE	:
					6B 21	0384	56888 CO SO A RE CO SO	28 9F 9F FB	0042E 00431		PUSHAB PUSHAB CALLS	P.ADO	CLISGET_VALUE	078 079
					21	18 24	AE	9F	00438 0043B		PUSHAB	RO, 4	DESC	: 079
				0000000G	00 56 06	<b>24</b>		FB DO E8	0043E 00441 00448 0044B		CALLS MOVL BLBS	#2, L RO, S STATU	IBSCVT_DTIME STATUS US, 398	
		4				08	012E	9F 31	0044E 00451	38\$:	BLBS PUSHAB BRW	54\$	AX_VALUE	079
		08	A8	18	AE	D71RC000	568 0128 568 868 868 868 868 869 909	28 11	00448 0044E 00451 0045A 0045A 00469 0046E 00478	38\$: 39\$: 40\$: 41\$:	BRW MOVC3 BRB MOVL CVTWL ADDL3 MOVL ADDC3 MOVL ADWC ADDC3 MOVL BLSS BGTR CMPL BLSS BGTR CMPL BLSSU INCL INCL TSTL	#8, T	TEMP_DESC, RETMAX_VALUE	080 079 081
		10	AE	04	6E	D71BC000 FA7F	8F 68	D0 32 C1	00463		CVTWL ADDL3	#-140 RETMI	SO47232, ONE WEEK 09, ONE WEEK#4 IN_VALUE, RETMIN_VALUE, DOUBLE IN_VALUE+4, DOUBLE LE, DOUBLE WEEK, RETMIN_VALUE, WEEK_PLUS IN_VALUE+4, WEEK_PLUS WEEK_PLUS LE, WEEK_PLUS	081
				14	AE	04	A8 AE	D0 D8 C1	0046E 00473		MOVL	RETMI	IN_VALUE+4, DOUBLE LE, DOUBLE	
		08	AE	00	AE AE	04	A8	D0 D8 CE	00478		MOVL	RETMI	NEEK, RETMIN VALUE, WEEK_PLUS	081
				00	50 AE	14	01	CE	0047D 00482 00487 0048A 0048F 00491		MNEGL	#1, R	NEEK, WEEK_PLUS	082
							0F 09	19	0048F 00491		BLSS	445	, 4.2.5.7.200	
				08	AE	10	AE 04 04 50	D1	00493 00498 0049A		BEQL	00UBL 43\$ 44\$	LE, WEEK_PLUS	
		,					50	D6 D6 D5	0049A 0049C 0049E 004A0	42\$: 43\$: 44\$:	INCL	RO RO		•
							50	05	004A0	448:	TSTL	RÖ		:

SETVOL V04-000		B 3 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32:1	Page 32 (7)
08 A8 10	AE	08 15 004A2 08 28 004A4 06 11 004AA 08 28 004AC 45\$: MOVC3	: 0821
08 A8 08	AE 0394	08	0822
	6A 56	08 28 004AC 45\$: MOVC3  #8, WEEK_PLUS, RETMAX_VALUE C7 9F 004B2 46\$: PUSHAB P.ADE 01 FB 004B6	0027
000000006		56 D1 004BC CMPL STATUS, #CLIS_ABSENT 0A 13 004C3 BEQL 47\$	0830
02 A9 01 <sup>02</sup>	03 03 03A8	04 88 004C5 BISB2 #4, FLAGS+2 56 F0 004C9 INSV STATUS, #3, #1, FLAGS+2 C7 9F 004CF 47\$: PUSHAB P.ADG 01 FB 004D3 CALLS #1, CLI\$PRESENT	: 0833 : 0834 : 0840
	6A 73 A9	01 FB 004D3	
01	A9 03BC	01 FB 004D3	: 0843
	6B 47	02 FB 004E4	
	50 10	C7 9F 004CF 47\$: PUSHAB P.ADG 01 FB 004D3 CALLS #1, CLI\$PRESENT 50 E9 004D6 BLBC R0, 52\$ 02 88 004D9 BISB2 #2, FLAGS+1 AE 9F 004DD PUSHAB DESC C7 9F 004E0 PUSHAB P.ADI 02 FB 004E4 CALLS #2, CLI\$GET_VALUE 50 E8 004E7 BLBS R0, 51\$ AE 9E 004EA MOVAB JPI_LIST, \$\$ITMBLKPTR AF DO 004EE MOVL #33585516, (\$\$ITMBLKPTR)+ A9 9E 004F5 MOVAB USER_LABEL, (\$\$ITMBLKPTR)+ A8 9E 004F9 MOVAB USER_VALUE, (\$\$ITMBLKPTR)+ 80 D4 004FD CLRL (\$\$ITMBLKPTR)+	0854
	80 0202000C 80 08 80 10	A9 9E 004F5 MOVAB USER_LABEL, (\$\$ITMBLKPTR)+ A8 9E 004F9 MOVAB USER_VALUE, (\$\$ITMBLKPTR)+ 80 D4 004FD CLRL (\$\$ITMBLKPTR)+	
	10	7E 7C 004FF CLRQ -(SP) AF 9F 00501 PUSHAR IOSR	0856
	10	AE 9F 00504 PUSHAB JPI_LIST 7E 7C 00507 CLRQ -(SP)	
000000006	00	AE 9F 00504 PUSHAB JPI LIST 7E 7C 00507 CLRQ -(SP) 7E D4 00509 CLRL -(SP) 07 FB 0050B CALLS #7, SYS\$GETJPIW 50 D0 00512 MOVL R0, STATUS 56 E9 00515 BLBC STATUS, 48\$ AE 3C 00518 MOVZWL 10SB, STATUS	
	56 07 56 08	07 FB 0050B	0857 0858 0859
000000006			: 0859
14	A8 08	67 11 00528 BRB 55\$ A9 9E 0052A 50\$: MOVAB USER_LABEL, USER_VALUE+4	0863
	OC 20	1B 11 0052F BRB 52\$ AE B1 00531 51\$: CMPW DESC, #12 48 1A 00535 BGTRU 53\$ AE 3C 00537 MOVZWL DESC, USER VALUE	0863 0865 0844 0869
10 14 20	A8 20 A8 24 AE 020E0000	AE 3C 00537 MOVZWL DESC, USER VALUE AE DO 0053C MOVL DESC+4, USER VALUE+4	0875 0876 0877
20	AE 020E0000 24 03CC	8F DO 00541 MOVL #34471936, DESC AE D4 00549 CLRL DESC+4	
	6A 67	C7 9F 0054C 52\$: PUSHAB P.ADK 01 FB 00550	0884
01 18	6A 67 A9 A8	08 88 00556 BISB2 #8, FLAGS+1 07 DO 0055A MOVL #7, WINDOW VALUE	0887 0888 0889
	0300	AE 9F 0055E PUSHAB DESC C7 9F 00561 PUSHAB P.ADM	: 0889
	68 52	01 FB 00521 49\$: CALLS #1 LIB\$SIGNAL 67 11 00528 BRB 55\$ A9 9E 0052A 50\$: MOVAB USER_LABEL, USER_VALUE+4 BBB 52\$ AE B1 00531 51\$: CMPW DESC, #12 AB 1A 00535 MOVZWL PESC, USER VALUE AE D0 0053C MOVL DESC+4, USER_VALUE+4 BF D0 0054C MOVL M34471936, DESC AE D4 00549 CLRL DESC+4 C7 9F 0054C 52\$: PUSHAB P.ADK C1 FB 00550 BLBC R0, 58\$ 08 88 00556 BLBC R0, 58\$ 07 D0 0055A MOVL MOVL M7, WINDOW_VALUE AE PF 0056E PUSHAB DESC C7 9F 00561 PUSHAB DESC C7 9F 00561 PUSHAB P.ADM 02 FB 00565 CALLS #2, CLI\$GET_VALUE AE D0 0056B BLBC R0, 58\$ AB 9F 0056B PUSHAB WINDOW_VALUE AE 3C 00571 MOVZWL DESC, -(SP)	0892
	7E 28 28	AE DD 0056E PUSHL DESC+4- AE 3C 00571 MOVZWL DESC, -(SP)	0892 0893 0892

SETVOL V04-000			C 3 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 33 (7)
Slar	00000000G 0	20	03 FB 00575	0897
		007710FA 00 18	A8 D1 00593 56\$: CMPL WINDOW VALUE, #7	0898 0900
"我想"一步走	00000050 8	BF 18	0A 19 00597 BLSS 57\$ A8 D1 00599 CMPL WINDOW_VALUE, #80 1A 15 005A1 BLEQ 58\$ 8F DD 005A3 57\$: PUSHL #7803370	0901
	00000000	007711EA 24 007710FA	01 DD 005AC PUSHL #1	0904
186 1 200 F 850		50	8F DD 005AE PUSHL #7803130 04 FB 005B4 CALLS #4, LIB\$SIGNAL 04 11 005BB BRB 59\$ 01 D0 005BD 58\$: MOVL #1, R0 04 005CO RET	0905 0910
			50 D4 005C1 59\$: CLRL RO 04 005C3 RET	0911

: Routine Size: 1476 bytes, Routine Base: \$CODE\$ + 0107

```
ROUTINE process_volume_set (root_desc, original_rvn, max_rvn) : NOVALUE =
B + F I O I AP CO CONTRACTOR OF THE PROPERTY O
                                                                                                  Find each volume in the volume set and modify it.
                                                                                                  Inputs:
                                                                                                                        root_desc - descriptor of root volume original_rvn - volume number of original volume max_rvn - highest volume number in set
                                                                                                  Outputs:
                                                                                                                         None.
                                                                                                         root_desc : REF VECTOR;
                                                                                         LOCAL
                                                                                                        status,

status2,

saved_flags,

reduced_flags,

this_rvn: volatile,

iosb: VECTOR[4,WORD],

desc1: VECTOR[2],

desc2: VECTOR[2],

buffer1: VECTOR[128,BYTE],

buffer2: VECTOR[128,BYTE],

dvi list: $ITMLST DECL(ITER
                                                                                                                                                                                                                                                                                      Saved original flags
                                                                                                                                                                                                                                                                                     Reduced flags
                                                                                                                                                                                                                                                                                     $GETDVI status block
                                                                                                                                                                                                                                                                                ! Device descriptors
                                                                                                                                                                                                                                                                                ! Device buffers
                                                                                                          dvi_list : $ITMLST_DECL(ITEMS=2);
                                                                                                                                                                                                                                                                                ! $GETDVI item list
                                                                                                  Do a little sneaky stuff first. Transfer the root volume's name to the
                                                                                                  local descriptor. Save the current flag settings, and calculate the flags for other volumes in this volume set.
                                                                                          desc1[0] = .root_desc[0];
desc1[1] = buffer1;
desc2[1] = buffer2;
                                                                                                                                                                                                                                                                                     Set up so we
                                                                                                                                                                                                                                                                               ! can loop easily
                                                                                          CH$MOVE(.root_desc[0],
.root_desc[1],
buffer1);
                                                                                           saved_flags = .flags;
                                                                                                                                                                                                                                                                                       Save original
                                                                                                                                                                                                                                                                                       The reduced set has
                                                                                           reduced_flags = .flags AND
                                                                                                                                                        (1^qual_erase OR
1^qual_erase_val OR
1^qual_fhw OR
1^qual_fhw_val);
                                                                                                                                                                                                                                                                                      only the ERASE
                                                                                                                                                                                                                                                                                       and
                                                                                                                                                                                                                                                                                      HIGHWATER
                                                                                                                                                                                                                                                                                      qualifiers
                                                                                                  For each volume in the set, check to see if this is the original, or only
             974
                                                                                                  one of the sister volumes, and set FLAGS accordingly. To do this, we need to call $GETDVI to see what the volume number is. But I'm getting ahead
```

END:

\$DASSGN(CHAN = .channel);

! Restore flags

! Deassign the channel

Page 35 (8)

```
F 3
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                                        VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1
                                                                                                                                                                                                Page
1033
1034
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1038
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1076
1076
                                              Perform volume rebuild, if requested.
                                                .status AND ( .this_rvn EQL .original_rvn )
                                                  IF .flags[qual_rebuild] AND .flags[qual_rebuild_val]
                                                  THEN
                                                        BEGIN
                                                        EXTERNAL ROUTINE
                                                              stand_alone_rebuild;
                                                                                                   ! Perform volume rebuild
                                                        LOCAL chan: WORD:
                                                        status = $ASSIGN( DEVNAM=desc1, CHAN=chan );
IF NOT .status
                                                        THEN SIGNAL (set$_openout, 1, desc1, .status, 0);
                                                        stand_alone_rebuild( .chan );
                                                                                                              ! Do the rebuild.
                                                        status = $DASSGN( CHAN=.chan );
                                                        IF NOT .status
                                                        THEN SIGNAL (set$_closeout, 1, desc1, .status, 0);
                                                        END;
                                           IF .this_rvn EQL .max_rvn THEN EXITLOOP;
                                                                                                                ! If end of volume
                                                                                                                ! set, leave
                                           CH$MOVE(.desc2[0],
buffer2,
buffer1);
                                                                                                                   Now switch to the
                                                                                                                  next volume in this
                                                                                                                ! volume set.
                                           END:
                         1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
                                        For this volume set, if the /LABEL flag was set, then we must also modify [0,0]VOLSET.SYS on the root volume. Note that ODS1 volumes
                                        cannot be volume sets so will fail this test.
                                     if .max_rvn GTR 1
AND .flags[qual label]
THEN modify_volset(.root_desc);
                                     RETURN;
END;
                                                                                                                               SYSSOPEN, SYSSDASSGN
STAND ALONE_REBUILD
SYSSASSIGN
                                                                                                                   EXTRN
                                                                                     OFFC 00000 PROCESS_VOLUME_SET:
WORD Save
                                                                                                                               Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
FLAGS, R11
-316(SP), SP
ROOT_DESC, R6
                                                                                                                                                                                                      0912
                                                                                             00002
00009
0000E
                                                                                  EF
CE
AC
                                                                                        9E
9E
00
                                                                                                                   MOVAB
                                                                                                                                                                                                      0951
                                                                                                                   MOVL
```

								5-Sep	0-1984 01:01:55 0-1984 12:09:22	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 37 (8)
FF64	CD	E C F O E 8 04	AD AD B6	FF64 20	66 CD AE 66	D99280B00FB08DFDDB11	00012 00016 00011 00028 00028 00033 00037 00040 00052 00057 00057 00064		MOVL (RC MOVAB BUF MOVAB BUF MOVC3 (RC	6), DESC1 FFER1, DESC1+4 FFER2, DESC2+4 6), 24(R6), BUFFER1 AGS, SAVED_FLAGS 61441, FLAGS, REDUCED_FLAGS	0952 0953 0954
	59	03BC 03B4	6B CB	FFFFOFFF EC FO 0388	00 DE 66BF AD CO 507	90 90 96	00028 00033 00039 0003F	15:	MOVL DES	SC1+4, FAB+44	0952 0953 0954 0958 0960 0977 0978
	(	0000000G	00 57 16		57	FB DO E8 DD	00043 0004A 0004D 00050		MOVI RO	SYSSOPEN STATUS ATUS, 28 ATUS SC1	0983 0980
		0000000G	00	00000000G	AD 01 8F 04 07	9F DD DD FB	00052 00055 00057 0005D		BLBS STA PUSHL STA PUSHAB DES PUSHL #1 PUSHL #SE CALLS #4	SC1 ET\$_WRITEERR , LIB\$SIGNAL	0980
		0224	CB 50 80 80	0394 04 002E0004 FC	CB AE 8F		00066	2\$: 3\$:	BRB 3\$ MOVL FAE MOVAB DV1 MOVL #30 MOVAB TH1	B+12, CHANNEL I LIST, \$\$ITMBLKPTR 074660, (\$\$ITMBLKPTR)+ IS RVN, (\$\$ITMBLKPTR)+ \$ITMBLKPTR)+ 408000, (\$\$ITMBLKPTR)+ FFER2, (\$\$ITMBLKPTR)+ SC2, (\$\$ITMBLKPTR)+ \$ITMBLKPTR)+ \$ITMBLKPTR)+ \$ITMBLKPTR)+ \$ITMBLKPTR)+	0985 0996
			80 80 80	00340080 20 E4	AD 86 AE AD 80	090940EE4C4F	0006D 00071 0007E 00085 0008P 0008F 00091 00096 0009C 0009E		MOVL #34 MOVAB BUF MOVAB DES CLRL (\$5 CLRQ -(5)	408000, (\$\$ITMBLKPTR)+ FFER2, (\$\$ITMBLKPTR)+ SC2, (\$\$ITMBLKPTR)+ \$ITMBLKPTR)+	0999
				F4 14 EC	AD 7E 7E AD AE AD	9F 9F 7C FB	00091 00093 00096 00099		PUSHAB DES	I LIST	0777
	(	0000000G	00 58 07 58 15	F4	AD 7E 08 50 58 AD 58	E9	0009E 000A5 000A8 000AB		CALLS #8, MOVL RO. BLBC ST/	SYSSGETDVIW STATUS2 ATUS2, 4\$ SB, STATUS2 ATUS2, 5\$ ATUS2, 5\$ ATUS2 SC1	1000 1001 1002
			.,	EC 00000000G	AD 58 58 AD 01 86	9F 9D	000A8 000AB 000AF 000B2 000B4 000B7	45:	BLBS STA PUSHL STA PUSHAB DES PUSHL #1 PUSHL #SE CALLS #4	ATUSZ SC1 ET\$_WRITEERR	1002 1008 1005
	•	000000006	00 1B	FC	8F 04 57 AD	FB 04 E9 D1	000BF 000C6 000C7 000CA 000CF 000D1 000D4 000D6	58:	KEI	, LTB\$SIGNAL ATUS, 8\$ IS_RVN, ORIGINAL_RVN	1004 1015 1018
			6B		AD 03 59 6B 0A	13 00 05 13	000CF 000D1 000D4 000D6	6\$:	BEQL 6\$ MOVL RED TSTL FLA BEQL 7\$	NICED FLAGS FLAGS	1019 1020
		v00000000	EF 6B	0224	6B 0A AD 01 5A CB	3ED9DDB4913053FB0DB91	000E5	7\$: 8\$:	BLBC STACK CMPL THIS BEQL 6\$ MOVE TSTE FEAT FEAT FEAT FEAT FEAT FEAT FEAT FE	AGS  SC1 , PROCESS_ONE_VOLUME VED_FLAGS, FLAGS ANNEL , SYS\$DASSGN ATUS, 10\$	1021 1022 1025
		00000000G 08	00 60 A0	FC	CB 01 57 AD	FB E9 D1	000E9 000F0 000F3		CALLS #1 BLBC ST/ CMPL TH	, SYS\$DASSGN ATUS, 10\$ IS_RVN, ORIGINAL_RVN	1029

	SETVOL VO4-000							15	3 -Sep-19 -Sep-19	84 01:01 84 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 38 (8)
		60 5B	02	AB AB		65 1 04 E 7E	2110	000FA 000FF 000FF 00104		BNEQ BBC BBC CLRQ	10\$ #4. #5. -(\$F	FLAGS+2, 10\$ FLAGS+2, 10\$	1031
			0000000G	00 57 16		AD 99	F B 0 8 4 D F	00106 00109 0010C 00113 00116 00119		BNEQ BBC CLRQ PUSHAB PUSHAB CALLS MOVL BLBS CLRL PUSHL PUSHL PUSHL PUSHL CALLS MOVZWL	DESC #4. RO. STAT	SYS\$ASSIGN STATUS TUS, 9\$ TUS	1041 1042
A STATE OF THE PARTY OF THE PAR			00000000G 00000000G	00 7E 00 7E 00 57	007710A2	01 D 8F D 05 F 6E 3 6E 3	DDBCBCBO	00120 00122 00128 0012F 00132 00139 0013C 00143	9\$:	PUSHL PUSHL CALLS MOVZWL CALLS MOVZWL CALLS MOVL	#780 #5, CHAN #1, CHAN #1, RO.	3042 LIB\$SIGNAL N(SP) STAND_ALONE_REBUILD N(SP) SYS\$DASSGN STATUS TUS, 10\$	1044 1046
And the Control of th			00000000G	16 00 AC	0077105A	57 E 57 C	840F00B1	00146 00149 0014B 0014D 00150 00152 00158	10\$:	CALLS	#5.	LIB\$SIGNAL	1047
	FF64	CD	20	AE 01	E4 OC FE	OB 1	3	00164 00166 0016E 00171	115:	BEQL	DESC	S_RVN, MAX_RVN C2, BUFFER2, BUFFER1 _RVN, #1	1055 0971 1065
		09	00000000v	6B EF		0D 1	5 1 0 8 4	00175 00177 0017B 0017D	125:	BRW CMPL BLEQ BBC PUSHL CALLS RET	#5. R6	FLAGS, 12\$	1066 1067 1070

; Routine Size: 389 bytes, Routine Base: \$CODE\$ + 06CB

IF .flags[qual\_log] ! If /
THEN SIGNAL (set\$\_modified, 1, .desc);

END:

END:

RETURN; END;

! If /LOG, tell user

(9)

SETV	OL	
V04-	ŌŌ	0

J 3 16-Sep-1984 14-Sep-1984	01:01:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	
14-Sep-1984	12:09:22	[CLIUTL.SRC]SETVOLUME.B32;1	

Page 40 (9)

## .EXTRN SYSSCMKRNL

				0	OFC	00000	PROCESS	ONE VOL	UME:	1071
		57 56 55 5E	00000000 000000006 000000006	9F 00 EF 04 5E	9E 9E 0E	00002 00009 00010 00017	PROCESS	MOVAB MOVAB MOVAB SUBL2	Save R2,R3,R4,R5,R6,R7 a#SYS\$CMKRNL, R7 LIB\$SIGNAL, R6 ODS1, R5 #4, SP SP	1071
	0000000v	EF OA		01 50	FB E8	0001A 0001C 00023		CALLS	#1, READ_HOMEBLOCK RO, 1\$	1093
		66	0000000G	8F 01	FB 04	00026 0002C 0002F		PUSHL CALLS RET	#SÉT\$ NOHOME #1, LIB\$SIGNAL	1094
53		6E 52		54 03 01 15	04 C5 D0	00030 00032 00036 00039	15:	CLRL MULL3 MOVL BRB	STATUS #3, CLUSTER, R3 #1, VBN 4\$	1097 1098 1104
	00000000		04	AC 52	DD	0003B 0003E	2\$:	PUSHL	DESC	
E7	00000000v	EF 34 62 3		AC22001534	F3	0003B 0003E 00040 00047 0004A 0004D	45:	BLBC MOVL BLBS AOBLEQ	#2, SET_HOME R0, 3\$ #1, STATUS ODS1, 5\$ R3, VBN, 2\$ STATUS, 6\$ CHANNEL	1105 1106 1098 1113 1117
		33	03	A5 01	E9 DD DD DD 9F	00054 00057 0005A	5\$:	PUSHL PUSHL	CHANNEL #1	1117
		67	000000006	5E 00 04 50	FB DD	0005C 0005E 00064 00067 00069		PUSHL BLBS AOBLEQ BLBC PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL	#1 SP GET_CHANNELUCB #4, SYS\$CMKRNL UCB #1	1118
0E	FDDF	67 C5	00000000v 04	5E 04 06 AC	PF FB E1	0006B 0006D 00073 00076		CALLS	SP SET_UCBVCB #4, SYS\$CMKRNL #6, FLAGS, 6\$ DESC #1	1120 1121
		66	000000006	AC 01 8F 03	DD DD FB 04	0007C 0007F 00081 00087 0008A	6\$:	PUSHL PUSHL PUSHL CALLS RET	#1 #SET\$ MODIFIED #3, LIB\$SIGNAL	1126

; Routine Size: 139 bytes, Routine Base: \$CODE\$ + 0850

```
ROUTINE read_homeblock(cluster) =
                                             This routine reads the first good home block of the volume. It uses $QIOW's because $READ finds the End-of-File block to be zero in QDS1 initialized disks and thus will not try to read the home block. In addition the cluster size and structure level are determined and stored.
                                              Outputs:
                                                        cluster - cluster size
                                                       ods1 - 0 => 0DS2
1 => 0DS1
                                          BEGIN
                                          LOCAL
                                                desc : $BBLOCK[dsc$c_s_bln],
fib : $BBLOCK[fib$c_extdata],
atr : BLOCKVECTOR[2,8,BYTE],
stablk : $BBLOCK[32],
file_size : VECTOR[2,WORD],
iosb : VECTOR[4,WORD],
                                                                                                                   Descriptor for the FIB in $QIOW
File Information Block for $QIOW
Attribute list for $QIOW
Where statistics block is stored after $QIOW
The file size from statistics block
                                                                                                                   Status block for the $010W
                                                 block.
                                                                                                                    Temporary block count
                                                 status;
                                                                                                                   Status
                                             Before we can look at the homeblock we have to find how many blocks there
                                             are (or the block number or the last block). This is done by issuing a
                                             $QIOW to get the statistics block.
                                          desc[dsc$w_length] = fib$c_extdata;
desc[dsc$a_pointer] = fib;
                                                                                                                ! Initialize descriptor pointing to ! to the file info block
                                          CH$FILL(0, fib$c_extdata, fib);
                                                                                                                ! Zero the fib for new info
                                          fib[fib$l_acctl] = fib$m_noread OR
                                                                                                                ! Deny read and write access to others
                                         fibSm_nowrite;

fib[fib$w_fid_num] = .nam[nam$w_fid_num];

fib[fib$w_fid_seq] = .nam[nam$w_fid_seq];

fib[fib$w_fid_rvn] = .nam[nam$w_fid_rvn];
                                                                                                                     ! Specify file identification
                                          atr[0,atr$w_type] = atr$c_statblk;
atr[0,atr$w_size] = atr$s_statblk;
atr[0,atr$l_addr] = stablk;
atr[1,0,0,32,0] = 0;
                                                                                                                   The attribute we want is the statistics block
                                                                                                                   It goes into stablk Indicate end of information
                                                                      CHAN = .channel,
FUNC = IO$ ACCESS,
IOSB = iosb,
                                          status = $QIOW (CHAN =
                                                                                                                ! Access the statistics block
                                                                              = desc.
                                                                              = atr);
                                         IF .status THEN status = .iosb[0];
IF NOT .status
THEN SIGNAL(.status)
ELSE
BEGIN
                                                                                                                ! Check if everything Okay
                                                                                                                ! If not,
                                                                                                                        not, tell user, go to end
                                                 file_size[1] = .stablk[sbk$w_filesizh]; ! The file size is stored
```

(10)

```
M 3
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1
                                                                                                                                                                                                                                                                               Page 43 (10)
                                                                                                .buffer[hm1$w_ibmapsize] NEQ 0 AND checksum2(buffer, $BYTEOFFSET(hm1$w_checksum1)) AND checksum2(buffer, $BYTEOFFSET(hm1$w_checksum2))
     1250
1251
1253
1253
1255
1255
1255
1256
1256
1263
1264
1268
1268
1268
1269
1270
THEN
                                                                                                BEGIN
ods1 = 1;
                                                                                                                                                             ! Volume is ODS1
! Dummy in a cluster size of 1
! If /ACCESSED was specified,
! compute the value to add
! to the LRU value in the VCB
                                                                                                 .cluster = 1;
IF .flags[qual_access]
                                                                                                         BEGIN
                                                                                                         acc_inc = 0;
If .acc_value GTR .buffer[hm1$b_lru_lim]
THEN acc_inc = .acc_value - .buffer[hm1$b_lru_lim];
                                                                                                         END:
                                                                                                 RETURN true:
                                                                                                END:
                                                                                                                                                                                  End of read success block
End of INC block
End of file access block
                                                                                       END:
                                                                               END:
                                                                      END:
                                                         If here, then no good homeblock was found. Return a value of FALSE to
                                                         show that.
   1272
1273
1274
                                                     RETURN false:
                                                    END:
                                                                                                                                                                   .EXTRN SYS$QIOW
                                                                                                                        O3FC 00000 READ_HOMEBLOCK:
                                                                                                                                                                                  Save R2,R3,R4,R5,R6,R7,R8,R9

SYS$QIOW, R9

ACC_VALUE, R8

CHECKSUM2, R7

BUFFER, R6

-100(SP), SP

#32, DESC

FIB, DESC+4

#0, (SP), #0, #32, FIB
                                                                                                                                                                  .WORD
                                                                                                                                                                                                                                                                                       1127
                                                                                           598755EAEAE
                                                                                                                            9E 9E 9E 9E 9E 2C
                                                                                                                                   00002
00009
00017
00012
00026
00028
00038
00038
00044
00054
00059
00062
00062
00067
00068
                                                                                                                    MOVAB
                                                                                                                                                                  MOVAB
                                                                                                                                                                  MOVAB
                                                                                                                                                                  MOVAB
                                                                                                                                                                                                                                                                                        1157
1158
1160
                                                                                                                                                                  MOVW
                                                                          5C
                                                                                                         30
                                                                                                                                                                  MOVAB
                        20
                                                      00
                                                                                                                                                                  MOVC5
                                                                                                                                                                                   #1025, FIB
NAM+36, FIB+4
NAM+40, FIB+8
#589856, ATR
STABLK, ATR+4
                                                                                                                                                                                                                                                                                        1162
1164
1166
1169
1170
1171
1177
                                                                                                                            MOVZWL
                                                                          30
44
20
30
                                                                                     AE AE AE
                                                                                                                                                                  MOVL
                                                                                                                                                                  WVOM
                                                                                                                                                                  MOVL
                                                                                                                                                                  MOVAB
                                                                                                                                                                  CLRL
CLRL
PUSHAB
                                                                                                                                                                                    ATR+8
                                                                                                                                                                                    -(SP)
                                                                                                         30
                                                                                                                                                                                   ATR
                                                                                                                                                                  CLRQ
CLRL
PUSHAB
                                                                                                                                                                                    -(SP)
                                                                                                         70
                                                                                                                                                                                   DESC
-(SP)
                                                                                                                                                                  CLRQ
PUSHAB
                                                                                                                                                                                   IOSB
#50
                                                                                                         24
                                                                                                                                                                  PUSHL
PUSHL
                                                                                                     0204
                                                                                                                                                                                    CHANNEL
                                                                                                                                                                                    -(SP)
                                                                                                                                                                  CLRL
```

S	ET	٧	OL	
	04			

					1	3 5-Sep-19 4-Sep-19	84 01:01 84 12:09	:55	VAX-11 BL	iss-32 V4.0	-742 E.832;1	Page	(10)
	69 53 07 53 00	04	0005A555	F09C8DB1000	0006D 00070 00073 00076 0007A		CALLS MOVL BLBC MOVZWL BLBS	#12. RO. S STATU IOSB STATU	SYS\$QIOW STATUS IS, 1\$ STATUS IS, 2\$ IS IB\$SIGNAL				1178 1179 1180
0000000G	00		01	EB	[][][][]	15:	BLBS PUSHL CALLS BRW	MI.	IB\$SIGNAL			:	1180
02	AE 6E 52 6E	10	011EE22733EE2F6EE16EC03EE36C67	D1	0007F 00086 00089 0008E 00092 00095 00098	2\$: 3\$:	MOVW MOVL CMPL BLEQ		K+4, FILE_S K+6, FILE_S BLOCK C, FILE_SIZE	IZE+2			1183 1184 1193
			00F3	31 70 04	0009A 0009D	48:	BRW	-(SP)					1201
	7E,	0200	55 8F 56	00000000000000000000000000000000000000	00098 0009D 0009F 000A1 000A3 000A8		CLRQ CLRL PUSHL MOVZWL PUSHL CLRQ PUSHAB	-(SP) BLOCK #512 R6 -(SP)	(SP)		,		
		24	AE	9F	OOOAC		PUSHAB	10SB					
		0204	26	00	000B1		PUSHL	CHAN	EL				
	69 53 BD 53 B6		0C 50 53	D4B09C9125353	000AF 000B1 000B5 000B7 000BA		PUSHL CLRL CALLS MOVL BLBC MOVZWL	#12, RO, S	SYSSQIOW STATUS JS, 1\$ , STATUS JS, 1\$ ER+13, #2				1202
	B6	04	AE 53	E9	000BD 000C0 000C4 000C7 000CB		MOVZWL BLBC CMPB	STATE	IS, 1\$			:	1203 1210
	02	OD	A6	91	000C7		CMPB BNEQ	23					1210
		08	A6	D5	0000D		BNEQ TSTL BEQL TSTW	BUFFE 5\$	R+8				1211
		0E	A6 62	85	000D2 000D5		TSTW	BUFFE	R+14				1212
		10		B5	00007		BEQL	5\$ BUFFE	R+16	;		:	1213
		12	A6	B5 13	OOODC		TSTW	BUFFE 5\$	R+18				1214
		14	58 A6	13 85	000D7 000DA 000DC 000DF 000E1		TSTW BEQL TSTW BEQL TSTW	5\$ BUFFE	R+20				1215
		16	53	13 B5	000E4 000E6		BEQL	5\$ BUFFE					1216
			A5A5A5A6EA69	13	000E9		BEOL	58					1217
		18	49	D5 13	OOOEB		BEQL	BUFFE 5\$	N+24				
		10	A6	D5 13	000F0 000F3		BEQL TSTW	BUFFE 5\$	R+28			•	1218
		20	A6 3F	B5	000F5 000F8		TSTW BEQL	BUFFE	R+32				1219
		55	A6 3A	85 13	OOOFA		TSTW	BUFFE	R+34				1220
			3Ã		000FF		PUSHL	5\$ #58					1221
	67 30 7E	01FE	3A 56 02 56 8F 56	DD FB E9 DD	000FF 00101 00103 00106 00109 0010E		BEQL TSTW BEQL PUSHL PUSHL CALLS BLBC MOVZWL PUSHL	RO. 5	HECKSUM2				1222

SE VO	TVOL 4-000								8 4 16-Sep-1 14-Sep-1	1984 01:01 1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 45 (10)
	68	45 0200	68 A6 C6	04 E0	67 23 BC A6 08 68 8F	0201 0E 0200 45 0C 08 02 06	050661600C636F64A6560	FE93E9E1831125535353	00128 0012E 00130 00137 00139 0013F 00141 00144 00146 00149 0014B	CALLS BLBC CLRB MOVZWL BBC CLRB CMPZV BGEQ SUBB3 BRB CMPW BNEQ TSTW BEQL TSTL BEQL TSTW	BUFF 6\$ BUFF 7\$ BUFF 7\$	CHECKSUM2 5\$ ER+14, acluster FLAGS, 6\$ INC #8, BUFFER+69, ACC_VALUE ER+69, ACC_VALUE, ACC_INC ER+12, #257 ER+8 ER+2 ER+6	1225 1226 1227 1230 1231 1232 1234 1237 1238 1239
	68	2E 0200	13 A6 C6	0201 04 E0	67 32 7E 67 25 C6 BC A6 08 68 50	01FE 0200 2E	46535620F620011060760760	B100B9C0B90014083	0014E 00150 00152 00154 00156 00158 0015E 00163 00165 00168 00168 00170 00174 00179 00170	BEQL TSTW BEQL PUSHL PUSHL CALLS BLBC MOVZWL PUSHL CALLS BLBC MOVB MOVL BBC CMPZV BGEQ SUBB3	7\$ BUFF 7\$ 8 R62 R010 R62 R010 R62 R010 R010 R010 R010 R010 R010 R010 R010	CHECKSUM2 7\$ 0, -(SP) CHECKSUM2 7\$ ODS1 aCLUSTER FLAGS, 6\$	1241 1242 1243 1243 1246 1247 1248 1251 1252 1253 1253
	FEFB		52			0000064	01 8F 50	D0 04 F1 04	0018C 6\$: 0018F 00190 7\$: 0019A 8\$:	MOVL RET ACBL CLRL RET		RO ), #1, BLOCK, 3\$	1255 1191 1265

; Routine Size: 413 bytes, Routine Base: \$CODE\$ + 08DB

END:

Page 46 (11)

SETVOL V04-000	D 4 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	(11)
	52 04 A0 D0 00008 MOVL 4(RO), STRING	1292 1298 1299 1301
	50 6342 9A 00014 1\$: MOVZBL (INDEX)[STRING], RO  52 8F 50 91 00018 CMPB RO, #82  54 01 88 0001E BISB2 #1, RESULT  57 8F 50 91 00023 2\$: CMPB RO, #87  54 02 88 00029 BISB2 #2, RESULT  55 8F 50 91 00025 3\$: CMPB RO, #69  45 8F 50 91 00025 3\$: CMPB RO, #69	
	54 01 88 0001E BISB2 #1, RESULT	1302
	57 8F 50 91 00023 2\$: CMPB RO, #87	1303
	57 8F 50 91 00023 2\$: CMPB R0, #87  54 02 88 00029 BISB2 #2, RESULT  2F 11 0002C BRB 8\$  45 8F 50 91 0002E 3\$: CMPB R0, #69  66 13 00032 BEQL 4\$  50 8F 50 91 00034 CMPB R0, #80  50 12 00038 BNEQ 5\$	1304
	45 8F 50 91 0002E 3\$: CMPB RO, #69	1305
	06 13 00032 BEQL 4\$ 50 8F 50 91 00034 CMPB R0, #80 05 12 00038 BNEQ 5\$ 54 04 88 0003A 4\$: BISB2 #4, RESULT	1306
	54 04 88 0003A 4\$: BISB2 #4, RESULT 1E 11 0003D BRB 8\$	1307
	1E 11 0003D BRB 8\$ 44 8F 50 91 0003F 5\$: CMPB R0, #68	1308
	44 8F 50 91 0003F 5\$: CMPB RO, #68  4C 8F 50 91 00045 CMPB RO, #76  54 08 88 0004B 6\$: BISB2 #8, RESULT  00 11 0004E BRB 8\$  00000000G 8F DD 00050 7\$: PUSHL #CLI\$_IVPROT	1309
	05 12 00049 BNEQ 7\$ 54 08 88 00048 68: BISB2 #8, RESULT	1310
	00000000G 8F DD 00050 7\$: BRB 8\$ PUSHL #CLIS_IVPROT	1311
	00000000G 8F DD 00050 7\$: PUSHL #CLI\$ IVPROT  00000000G 00 01 FB 00056 CALLS #1, LTB\$STOP  B3 55 F2 0005D 8\$: AOBLSS R5, INDEX, 1\$  50 54 DO 00061 MOVL RESULT, R0	1299 1314 1315

; Routine Size: 101 bytes, Routine Base: \$CODE\$ + 0A78

Page

```
VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1
144444444901234567890123445678901234567890123444444488890123445678901234456789012344567890123449967
                                                         [NO]HIGHWATER only works for ODS2.
                                                   if .flags[qual_fhw]
THEN IF .ods1
THEN SIGNAL(set$_notods2, 1, %ASCID 'HIGHWATER_MARKING')
ELSE buffer[hm2$v_nohighwater] = .flags[qual_fhw_val];
                                                        In the case of LABEL, the label is stored in the same place on both ODS1 and ODS2 disks. However, there is an additional field in ODS1 homeblocks, which contain the volume label, padded with zeroes instead of blanks.
                                   14444444445512345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
                                                    if .flags[qual_label]
THEN______
                                                             BEGIN
IF NOT .flags[qual_lbl_cpy]
                                                                                                                                           ! If old label not copied
                                                              THEN
                                                                    BEGIN CH$MOVE(vcb$s_volname, buffer[hm1$t_volname2], buffer[hm1$t_volname2],
                                                                                                                                           ! then do so now.
                                                                      flags[qual_lbl_cpy] = 1;
                                                            CHSCOPY(.label_value[0], label_value[1],
                                                                                                                                           ! Copy label into VOLNAME2,
                                                                                                                                           ! padding with spaces.
                                                                              vcb$s_volname,
buffer[hm1$t_volname2]);
                                                              IF .ods1
                                                             THEN CH$COPY(.label_value[0], label_value[1],
                                                                                                                                           ! For ODS1, also copy to VOLNAME,
                                                                                                                                           ! padding with zeroes
                                                                                         vcb$s_volname,
buffer[hm1$t_volname]);
                                                ろろろろろろろろろ
                                                             END:
                                                        for OWNER_UIC, the ODS2 homeblock allows a full 16 bits for group, and another 16 bits for member. In the case of ODS1 disks, each of these fields is only 8 bits long. Also, if fold long UIC's into <377,377> for ODS1 disks.
                                                    IF .flags[qual_owner]
THEN
                                                             BEGIN
IF .ods1
THEN
                                                                      BEGIN
                                                                      IF .uic_value<8.8> NEQ 0
OR .uic_value<24.8> NEQ 0
                                                                      THEN
                                                                               BEGIN
                                                                             uic_value<0.8> = -1;
uic_value<8.8> = 0;
uic_value<16.8> = -1;
uic_value<24.8> = 0;
END;
                                    1481
1482
1483
1484
1485
1486
                                                                      buffer[hm1$w_volowner] = (.uic_value<16,8> *8) + .uic_value<0,8>;
```

! padded with spaces

```
I 4
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETVOLUME.B32:1
                                                       hm2$s_ownername,
buffer[hm2$t_ownername]);
  Recompute the checksums
                                   checksum2(buffer, $BYTEOFFSET(hm2$w_checksum1));
checksum2(buffer, $BYTEOFFSET(hm2$w_checksum2));
                                      Write the modified homeblock back to the disk
                                   status = $QIOW (CHAN = .channel,
FUNC = IO$ WRITEVBLK,
IOSB = iosb,
                                                                                               ! Read Virtual Block
                                                                                               ! From 'buffer'
! Write 512 bytes
! To this virtual block
                                                                     buffer,
512,
                                                                  =
                                                                   =
                                                                   =
                                                                      .vbn);
                                   IF .status THEN status = .iosb[0];
IF NOT .status
THEN
                                                                                               ! If not able to read
                                         SIGNAL (sets_hbwrite,
                                                                                               ! Error writing a homeblock
                                                                                                  to this disk
for this reason
                                                    .desc.
                                         RETURN false;
                                                                                                ! don't mod database
                                         END
                                   ELSE RETURN true;
END;
                                                                                                               .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                        0040C P.ADP:
00416
00418 P.ADO:
0041C
00420 P.ADR:
0042F
                                                                                                               .ASCII
                                  43 45 48 43 5F 41 54
                                                                           41 44
                                                                                                                          \DATA_CHECK\
                                                                                                              .BLKB
                                                                           0000000A
                                                                          00000000000000°
                                                                                                               .ADDRESS P.ADP
                                                                                                              .ASCII \ERASE_ON_DELETE\<0>
                                                                                         0042F
00430
00434
00438
00447
00450
00454
0045E
00460
                                                                          010E000F
000000000
7 49 48
0 47 4E
010E0011
000000000
                                                                                                              .LONG 17694735
.ADDRESS P.ADR
.ASCII \HIGHWATER_MARKING\<0><0><0>
                                                                                                  P.ADQ:
          52 41
                                                                                                  P.ADT:
                                                                                                  P.ADS:
                                                                                                                          17694737
                                                                                                               .LONG
                                                                                                               ADDRESS P.ADT
                                                                                                  P.ADV:
                                                                                                                          \/RETENTION\
                                               54
                                                    4E
                                                           45
                                                                 54
                                                                                                               .ASCII
                                                                                                               .BLKB
                                                                          0000000A
                                                                                                  P.ADU:
                                                                                                               .LONG
                                                                                                               .ADDRESS P.ADV
```

.PSECT \$CODE\$, NOWRT, 2

	SETVOL V04-000									1	Sep-	1984 01:01 1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 53 (12)
						58A 558 558 558 558	00000000° 000000006 000000000° 000000000	EF 000 EF EF 08 77 E	9E 9E 9E 9E	00000 00002 00009 00010 00017 0001E	SET_H	MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB	Save P.AD UIC LIBS FPRO FLAG	R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 O, R11 VÅLUE, R10 ISIGNAL, R9 IT_VALUE, R8 IS, R7	1316
						5E 7E	0200	ORE ACE AFT AE	C74403970	00025 00028 0002A 0002C 0002F 00034 00037		SUBLZ CLRQ CLRL PUSHL MOVZWL PUSHAB CLRQ	#8, -(SP -(SP VBN #512 BUFF -(SP	SP (SP) (ER	1344
					00000000G	00 56 06 56 10	0224	7E	9F DD D4 FB DE9	00039 0003C 0003E 00042 0004B 0004B		MOVAB MOVAB MOVAB MOVAB MOVAB SUBL2 CLRQ CLRQ CLRQ PUSHAB CLRQ PUSHAB PUSHL PUSHL CALLS MOVL BLBS PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL PUSHL	IOSB #49 CHAN -(SP #12, RO, STAT	INEL SYS\$QIOW STATUS US, 1\$	1345
							08 000000006	50 56 56 56 56 60 18 55 25	3C E8 DD DD DD DD 31	00051 00054 00057 00059 0005C 0005E 00064	15:	MOVZWL BLBS PUSHL PUSHL PUSHL PUSHL BRW	#SET	\$_HBREAD	1346 1352 1351 1349
				11	4E	67 07 A7	0221 FC	01 C7 A8 05	E1 E9 90	00064 00067 0006B 00070 00075	2\$:	BRW BBC BLBC MOVB BRB MOVB	ODS1 ACC_	FLAGS, 45 , 38 , VALUE, BUFFER+46	1359 1361
				38	65	A7 67 0F	0221 00000000G	A8 02 C7 5B 01 8F 03	90 E1 E9 DD DD FB	00077 0007C 00085 00087 00087 00087 00092 00094 00090 000A6 000AF 000B8 000B0 000C7 000CD 000D2 000D2	35: 45:	MOVB BBC BLBC PUSHL PUSHL CALLS BRB BBC BISB2 BBC BISB2 BBC BICB2 BBC BICB2 BBC BICB2 BBC BICB2 BBC BICB2 BBC CALLS	R11 #1 #SET	VALUE, BUFFER+69 FLAGS, 9\$ , 5\$  \$ NOTODS2 LIB\$SIGNAL	1362 1368 1369 1372 1370
				04	04 4A			24 01 01	11 E1 88	00092 00094 00099	58:	BRB BBC BISB2			1375
				04	4A	A7 A7 A7 A7 A7 A7 A7 A7		03 01 02	E1 8A E1	0009D 000A2 000A6	6\$: 7\$:	BBC BICB2 BBC	#1. #2.	DFLAGS, 75 BUFFER+42 DFLAGS, 85	1376
A section of the second				04	4A 04	A7 A7		02 04 04 04 07	88 E1	000AF	8\$:	BISB2 BBC BICB2	#2. #4.	BUFFER+42 DFLAGS, 9\$ BUFFER+42	1378
And the same of the same of the same of				21	ðî	10	18	AB 01	E1 9F DD FB 11	00088 00080 00002 00005	9\$:	BBC BLBC PUSHAB PUSHL	#1	10\$	1384 1385 1386
						69	0000000G	8F 03 0C	FB 11	000C7 000CD 000D0		PUSHL CALLS BRB	#SET	\$ NOTODS2 LTB\$SIGNAL	
	4A	50 A7	01	A7 01		01		05 50	É F	000D2 000D8	10\$:	BRB EXTZV INSV	#5. RO.	#1, FLAGS+1, RO #2, #1, BUFFER+42	1387

SETVOL V04-000						1	K 4 6-Sep- 4-Sep-	1984 01:01 1984 12:09	1:55 VAX-11 Bliss-32 V4.0-742 Page 5 0:22 [CLIUTL.SRC]SETVOLUME.B32;1 (12	54
		28	00000FF 8	7 2 000000006 8 0221	03 00 C7	E1 000DE D0 000E2 E9 000E9 D1 000EE	115:	BBC MOVL BLBC CMPL BLEQ PUSHL CALLS BRW MOVB BRB	#3, FLAGS, 14\$ EXTE_VALUE, R2 ODS1, 13\$ R2, #255 12\$ #7803370 #1, LIB\$SIGNAL	94 98 95
		00		007711EA	00 07 52 08 01	D1 000EE 15 000F5 DD 000F7 FB 000FD		CMPL BLEQ PUSHL	R2 #255 12\$ #7803370 : 140	
			4D A	7 01	Č2	31 00100 90 00103 11 00107	12\$:	BRW MOVB	R2. BUFFER+45 : 140	02
		40	66 A	7 02	04 52 48 88 7	B0 00109 E1 00100 B5 00111 13 00114 E9 00116	13\$: 14\$:	MOVW BBC TSTW	35\$ R2, BUFFER+45 14\$ 139 R2, BUFFER+70 #4, FLAGS, 16\$ FPROT_VALUE+2	19
			1 5	1 44	A7	3C 0011B		BEQL BLBC MOVZWL MOVZWL	R2, BUFFER+70  W4, FLAGS, 16\$  FPROT_VALUE+2  16\$  OD\$1, 15\$  BUFFER+36, R1  FPROT_VALUE+2, R0  R0, RT  FPROT_VALUE+2, R0  FPROT_VALUE+2, R0  FPROT_VALUE, R2  R2, R0  R1, R0, BUFFER+36  16\$	21
			55	0 02 1 02 2 02	A8 50 A8 68 52	3C 0011F CA 00123 3C 00126 3C 0012A		MOVZWL MOVZWL BICL 2	RO, RT  FPROT_VALUE+2, RO  FPROT_VALUE, R2  R2 R0	24
	44	A7	5	1 56	51 1A A7	CA 00120 A9 00130 11 00135 3C 00137	158:	BISW3 BRB MOVZWL	R1, R0, BUFFER+36 16\$ BUFFER+54, R1 : 142	23
			5	1	A8 50 A8 68 52	SC 0013B CA 0013F 3C 00142		MOVZWL MOVZWL MOVZWL	FPROT_VALUE+2, RO RO, RT FPROT_VALUE+2, RO FPROT_VALUE, R2	27
	56	A7 21	01 A	9	52 51 06 C7 AB 01	3C 00146 CA 00149 A9 0014C E1 00151 E9 00158 DD 0015E	16\$:	MOVW BBC TSTW BEQL BLBC MOVZWL BICL2 MOVZWL BICL2 BISW3 BRB MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 BISW3 BRB CL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL3 BISWS BI	BUFFER+54, R1 FPROT_VALUE+2, R0 R0, RT FPROT_VALUE+2, R0 FPROT_VALUE, R2 R2, R0 R1, R0, BUFFER+54 #6, FLAGS+1, 18\$ 0D\$1, 17\$ P.AD\$	32 33 34
			6	9 000000006	8F 03 0C	FB 00166		PUSHL PUSHL CALLS BRB EXTZV INSV	#SETS_NOTODS2 #3_LIB\$SIGNAL 18\$	
4A	50 A7	A7 01 29 06 A7	0	1	07	EF 0016B F0 00171	17\$: 18\$:	EXTZV	#7, #1, FLAGS+1, R0 : 143 R0, #3, #1, BUFFER+42	- 1
	14		01F8 C 02 A 08 B	7	50 05 06 0C 8F	EF 0016B F0 00171 E1 00177 E0 0017B 28 00180 88 00187 20 00193	100.	BBC BBS MOVC3 BISB2 MOVC5	## 188 ## 1, ## 1, ## 143 ## 1	51
	00	20	0	01F8	C7	00193 E9 00196 2C 0019B	19\$:	BLBC MOVC5	DUFFER+472 ODS1, 20\$ LABEL_VALUE, @LABEL_VALUE+4, #32, #12, - ; 145 LABEL_VALUE, @LABEL_VALUE+4, #0, #12, - ; 146	- 1
	00	00	08 B	8 04 2E	A8 A7 67 20	95 001A2	20\$:	TSTB	BUFFER+14 FLAGS : 147	
			2	3 0221	<b>C7</b>	18 001A6 E9 001A8		TSTB	24\$ OD\$1, 23\$ UIC_VALUE+1 21\$	- 1
				03	05 AA 07	12 001B0 95 001B2 13 001B5		BNEQ TSTB BEQL	21\$- UIC_VALUE+3 22\$-	
			6	0 00FF00FF 0 02	8F AA	00 001B7 9A 001BE	215:	MOVZBL	#16711935, UIC_VALUE : 148 UIC_VALUE+2, RO : 148	31

SETVOL VO4-000								1	5-Sep-	-1984 01:01 -1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 55 (12)
	3E	50 A7		50 51 50		08 6A 51	78 9A A1	001C2 001C6 001C9		ASHL MOVZBL ADDW3	#8, R	0, R0 ALUE, R1 0, BUFFER+30	1
			40	A7 21 10	0221 48	04 6A A7 C7 AB	11 D0 E9 E9	001CE 001D0 001D4 001D8 001DD	23\$: 24\$:	ASHL MOVZBL ADDW3 BRB MOVL BLBC BLBC PUSHAB PUSHL CALLS BRB MOVC3 MOVC3	FLAGS:	ALUE, BUFFER+44 +1, 26\$ -25s	1474 : 1488 : 1497 : 1500 : 1503 : 1501
				69	0000000G	AB 01 8F 03	DD FB	001E0 001E2 001E8		PUSHL PUSHL CALLS	WSETS	NOTODS2 TB\$SIGNAL	1501
	68 70	A7 A7 42	10 18 01	A8 A8 A7	0E	088028 008307 00	28 28 E1 B5	UUIFS		MOVC3 MOVC3 BBC TSTW	#8. RI #8. RI #2. FI VPROT	NOTODS2 IB\$SIGNAL  ETMIN_VALUE, BUFFER+72 ETMAX_VALUE, BUFFER+80 LAGS+T, 28\$ _VALUE+2  27\$ R+32, R1 _VALUE+2, R0 _VALUE+2, R0 VALUE, R2  0, BUFFER+32 R+52, R1 _VALUE+2, R0 _VALUE, R2  0, BUFFER+52 LAGS+1, 30\$ 29\$ W_VALUE, BUFFER+68 LAGS+1, 31\$ VALUE, BUFFER+68 LAGS+1, 31\$ VALU	1506 1507 1516
				1D 51 50	0221 40 0E	C7 A7 A8	E9	00208		BLBC MOVZWL MOVZWL	ODS1, BUFFÉI VPROT	27\$ R+32, R1 VALUE+2, R0	1518 1520
				1D 51 50 51 50 50 50	OE OC	50 A8 A8	30 30	0020C 00210 00213 00217		BICL2 MOVZWL MOVZWL	RO, R VPROT VPROT	TVALUE+2, RO VALUE, R2	1521
	40	A7		50	54	18	A9	00223	275:	BISW3 BRB MOVZWL	R1 R 28\$ BUFFE	0, BUFFER+32 R+52, R1	1520 1523
				50 51 50 52 50 50 A7	0E 0E 0C	A7 A8 50 A8 52 51	30 30 30	00225 00229 00220 00230 00234 00238 00240		BBC TSTW BEQL BLBC MOVZWL BICL2 MOVZWL BICL2 BISW3 BRB MOVZWL BICL2 MOVZWL BICL2 MOVZWL BICL2 BISW3	VPROT RO, R VPROT VPROT R2 R	VALUE+2, RO _VALUE+2, RO _VALUE, R2	1524
	54	A7 11	01 4C	50 A7 07 A7	0221	03 C7	CA A9 E1 E9	00238 00240 00245 00248	28\$:	BISW3 BBC BLBC MOVB BRB MOVB	R1, RI W3, FI ODS1, WINDO	Ö, BUFFER+52 LAGS+1, 30\$ 29\$ W_VALUE, BUFFER+44	1530 1533
ОС		0A 20	64 01 24	A7 A7 B8	28 20 0204	A8 05 A8 01 A8	90 E1 20	00245 00248 00248 00256 00256 00262 00265 00267	29\$: 30\$:	MOVB BBC MOVC5	WINDO	W_VALUE, BUFFER+68 LAGS+1, 31\$ VALUE, BUSER_VALUE+4, #32, #12, -	1534 1540 1545
			00000000	00	20	3A A7	9F FB 3C	00262 00265 00267	31\$:	PUSHL	BUFFEI #58 BUFFEI	R+484 R	1551
			000000006	00 7E 00	01FE 20	8F A7	30 9F FB	00276		MOVZWL PUSHAB	#510. BUFFE	TECKSUM2	1552
					04	7E 7E AC	70	00280		CLRQ CLRL PUSHL	-(SP) -(SP) VBN	ne croone	1562
				7E	0200	8F A7 7E AE 30	30 9F 70	00287		MOVZWL PUSHAB CLRQ	#512, BUFFÉI -(SP)	-(SP)	
					0224	30 C7 7E	9F DD DD	0028C 0028F 00291 00294 00296 0029A		PUSHL PUSHAB CALLS MOVZWL PUSHAB CLRQ CLRL PUSHL MOVZWL PUSHAB CLRQ PUSHAB PUSHL PUSHL CLRL	VBN #512, BUFFEI -(SP) IOSB #48 CHANNI -(SP)	EL	

SETVOL V04-000		M 4 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRCJSETVOLUME.B32;1	Page 56 (12)
	000000006 06 56 06 56 12 08 000000006 69 50	OC FB 0029C	1563 1564 1570 1569 1567 1573

; Routine Size: 712 bytes, Routine Base: \$CODE\$ + OADD

```
158890123456001234560078901123456161890123456278901233456789011234561618901234562289012334564423
                         ROUTINE set_ucbvcb (ucb) : NOVALUE =
This routine is called in kernel mode, to modify the fields in the UCB and
                                         VCB which correspond to changes made in the homeblock. The address of the UCB is passed as the input argument.
                                      BEGIN
                                      MAP ucb : REF $BBLOCK;
                                                                                                                   ! Define the UCB
                                             orb = .ucb[ucb$l_orb] : $BBLOCK,
vcb = .ucb[ucb$l_vcb] : $BBLOCK,
devchar = ucb[ucb$l_devchar] : $BBLOCK;
                                                                                                                       Define the ORB
                                                                                                                       Define the VCB
                                                                                                                    ! and devchar longword
                                         Go thru the UCB and VCB, making the same changes to it that were made to the homeblock. Note that, if the LABEL qualifier is set, the volume label is changed in the homeblock and in the VCB, but the logical name (DISK$label) is NOT CHANGED.
                                      IF .flags[qual_access] AND (.acc_inc NEQ 0)
THEN vcb[vcb$b_lru_lim] = .vcb[vcb$b_lru_lim] + .acc_inc;
                                      If .dflags[data_read] THEN devchar[dev$v_rck] = 1;
If .dflags[data_noread] THEN devchar[dev$v_rck] = 0;
If .dflags[data_write] THEN devchar[dev$v_wck] = 1;
If .dflags[data_nowrite] THEN devchar[dev$v_wck] = 0;
END;
                                      If .flags[qual_erase]
AND NOT .ods1
THEN vcb[vcb$v_erase] = .flags[qual_erase_val];
                                      IF .flags[qual_exte]
THEN vcb[vcb$w_extend] = .exte_value;
                                      IF .flags[qual_fhw]
AND NOT .ods1
THEN vcb[vcb$v_nohighwater] = .flags[qual_fhw_val];
                                      vcb$s_volname,
vcb[vcb$t_volname]);
```

```
SETVOL
VO4-000
                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1
                                                                                                                                                                                                                                           Page 58 (13)
   If .flags[qual_mntver]
THEN vcb[vcb$v_mountver] = .flags[qual_mntver_val];
                                             IF .flags[qual_owner]
THEN orb[orb$l_owner] = .uic_value;
                                             IF .flags[qual_retent] AND (NOT .ods1)
THEN
                               1640
1641
1642
1643
1644
1645
1646
1650
1651
1653
                                                     CH$MOVE(8, retmin_value, vcb[vcb$q_retainmin]);
CH$MOVE(8, retmax_value, vcb[vcb$q_retainmax]);
                                             IF .flags[qual_unl]
THEN ucb[ucb$v_unload] = .flags[qual_unl_val];
                                            IF .flags[qual_windows]
                                             THEN vcb[vcb$b_window] = .window_value;
                              1656
1657
1658
                                             RETURN;
END;
                                                                                                        O7FC 00000 SET_UCBVCB:
                                                                                                                                                          Save R2,R3,R4,R5,R6,R7,R8,R9,R10

FPROT_VALUE, R10

FLAGS, R9

UCB, R?

28(R7), R8

52(R7), R6

#1, FLAGS, 1$

ACC_INC

18
                                                                                                                                             . WORD
                                                                                                                                                                                                                                                  1575
                                                                               00000000
                                                                                                                 00002
                                                                                                                                            MOVAB
                                                                          59
57
58
59
                                                                                                    EFFC7719692981F3F2F4F495
                                                                                                            79DDDE918E91E8E8E8E8EEEE
                                                                                                                                            MOVAB
                                                                                                                  00010
                                                                                                                                                                                                                                                  1588
                                                                                                                                            MOVL
                                                                                           10
                                                                                                                 00014
                                                                                                                                            MOVL
                                                                                                                 00018
                                                                                                                                                                                                                                                  1589
1599
                                                                                                                                            MOVL
                                               00
                                                                                                                 0001C
                                                                                                                                            BBC
                                                                                       0220
                                                                                                                 00020
00024
00026
00026
00030
00034
00036
00038
00040
00045
00044
3$:
00047
00054
00059
00059
00063
00068
                                                                                                                 00020
                                                                                                                                            TSTB
                                                                                                                                            BEQL
                                                                                                                                                           ACC_INC, 73(R6)
#2, FLAGS, 5$
BUFFER+13, #1
                                                                 49
                                                                          A6
69
01
                                                                                       0220
                                                                                                                                            ADDB2
                                                                                                                                                                                                                                                  1600
1602
                                               2E
                                                                                                                                            BBC
                                                                                           20
                                                                                                                                            CMPB
                                                                                                                                            BEQL
                                                                                                                                                          % DFLAGS. 2$

#64, 59(R7)

#3, DFLAGS, 3$

#64, 59(R7)

#2, DFLAGS, 4$

#128, 59(R7)

#4, DFLAGS, 5$

#128, 59(R7)

#4, FLAGS+1, 6$

OD$1, 6$

#5, #1, FLAGS+1, R0
                                                                                                                                                                                                                                                  1605
                                                                          A9
A9
A9
A9
A9
A9
OC1
                                                                                                                                            BBC
                                               05
                                                                 04
38
04
38
04
38
04
38
01
                                                                                                                                            BISB2
                                                                                           40
                                                                                                                                            BBC
BICB2
                                               05
                                                                                                                                                                                                                                                  1606
                                                                                           40
                                                                                                                                            BBC
BISB2
BBC
BICB2
BBC
                                                                                                                                                                                                                                                  1607
                                                05
                                                                                           80
                                                                                                                                                                                                                                                  1608
                                                05
                                                                                           80
                                                                                                                                                                                                                                                  1611
1612
1613
                                                11
                                                                                                                                            BLBS
                                                                                       0221
                     50
                                      01
                                                A9
```

SETVOL /04-000							C 5 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32	;1 Page 5
53	A6		01 08 1F	3E	03 69 A6 000000006 69 02	50 03 04 AA	FO 0006E INSV RO, #3, #1, 83(R6) E1 00074 68: BBC #3, FLAGS, 7\$ B0 00078 MOVW EXTE VALUE, 62(R6) E1 00080 78: BBC #4, FLAGS, 8\$	161
					51 4A 50 02 51 50 02 52 50	A6 AA 50 AA 6A	## STW   FPROT_VALUE+2   S\$   S\$   S\$   S\$   S\$   S\$   S\$   S	1620
		4A	A6 11	01	50 50 A9 00 0221	51 06 09	A9 0009E E1 000A3 8\$: BBC #6, FLAGS+1, 9\$ E8 000A8 BLBS ODS1, 9\$	162 162 162
53	50 A6 OC	01	A9 01 09 20	08	01 04 69 BA 04	07 50 05	E8 000A8 BLBS 0D\$1, 9\$ EF 000AD EXTZV #7, #1, FLAGS+1, R0 F0 000B3 INSV R0, #4, #1, 83(R6) E1 000B9 9\$: BBC #5, FLAGS, 10\$ 2C 000BD MOVC5 LABEL_VALUE, BLABEL_VALUE+4, #3	2, #12, - ; 162 2, #12, - ; 163
53	50 A6	02	A9 01		BA 04 0C 02 01 02	AA A6 A9 01	000C4 20(R6) E9 000C6 10\$: BLBC FLAGS+2, 11\$ EF 000CA EXTZV #1, #1, FLAGS+2, R0 F0 000D0 INSV R0, #2, #1, 83(R6)	163
,,	no		•		68 00000000G	69	FO 000D0 INSV RO, #2, #1, 83(R6) 95 000D6 11\$: TSTB FLAGS 18 000D8 BGEQ 12\$ DO 000DA MOVL UIC VALUE, (R8) E9 000E1 12\$: BLBC FLAGS+1, 13\$	163 163 163
	50	6C 74 02	A6 A6 OC A9	10 18 02	0C 0221 AA AA A9 01	00 A9 C9 08 08 02 03	E8 000E5 28 000EA 28 000F0 E1 000F6 13\$: BBC EXTRY #3, #1, FLAGS+2, PO	164 164 164 164
65	50 A7		0C A9 01 20	01	04 A9 0E	500 02 AA 1B AA 50 AA 52 51	FO 00101 INSV RO, #4, #1, 101(R7) E1 00107 148: BBC #2, FLAGS+1, 15\$ B5 0010C TSTW VPROT_VALUE+2 13 0010F BEQL 15\$ 3C 00111 MOVZWL 24(R8), R1	164
					51 18 50 0E	A8 AA 50	3C 00111 MOVZWL 24(R8), R1 3C 00115 MOVZWL VPROT VALUE+2, R0 CA 00119 BICL2 R0, RT	1650
		18	A8		50 OE 52 OC 50	AA 52	13 0010F 3C 00111 MOVZWL 24(R8), R1 3C 00115 MOVZWL VPROT VALUE+2, R0 EBICL2 R0, RT 3C 0011C MOVZWL VPROT VALUE+2, R0 3C 00120 MOVZWL VPROT VALUE+2, R0 A9 00127 BICL2 R2, R0 BICL2 R2, R0 BICL2 R2, R0 BISW3 R1, R0, 24(R8) BISW3 R1, R0, R0, R1 BISW3 R1, R0, R1 BISW3 R1 BISW3 R1, R0, R1 BISW3 R1, R0, R1 BISW3 R1 B	165
			05	0B 01 48	50 A8 A9 A6 28	01 03 AA	13 0010F 15 BEQL 15\$ 3C 00111 MOVZWL 24(R8), R1 3C 00115 MOVZWL VPROT VALUE+2, R0 CA 00119 BICL2 R0, RT 3C 0011C MOVZWL VPROT VALUE+2, R0 3C 00120 MOVZWL VPROT VALUE, R2 CA 00124 BICL2 R2, R0 A9 00127 BISW3 R1, R0, 24(R8) WINDOW_VALUE, 72(R6) MOVB WINDOW_VALUE, 72(R6)	1656 1656 1656

; Routine Size: 315 bytes, Routine Base: \$CODE\$ + ODA5

VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32:1

```
ROUTINE modify_volset (desc) : NOVALUE = BEGIN
Modify [0,0]VOLSET.SYS on the root volume of the volume set. Only DDS2 initialized volumes can be volume sets so we don't have to worry about the $READ finding the End-of-file value as zero in this case
                                         Inputs:
                                                  desc - address of root volume device descriptor
                                         Outputs:
                                                  None.
                                      MAP
                                            desc : REF VECTOR:
                                      LOCAL
                                            status,
buffer : VECTOR[vsl$c length,BYTE],
fab : $FAB(DNM = '[0,0]VOLSET.SYS',
                                            Put the root device name in place
                                      fab[fab$l_fna] = .desc[1];
fab[fab$b_fns] = .desc[0];
                                         Open and connect to [0,0]VOLSET.SYS
                                      IF (status = $OPEN(FAB = fab))
THEN status = $CONNECT(RAB = rab);
                                      IF NOT .status
                                      THEN
                                            BEGIN
                                           ptr.
d: VECTOR[2],
b: VECTOR[30];
ptr = CH$MOVE(.fab[fab$b_fns],
.fab[fab$l_fna],
                                            ptr = CH$MOVE(.fab[fab$b_dns],
.fab[fab$l_dna],
                                            SIGNAL (set$_writeerr,
                                                       d.
```

```
SETVOL
VO4-000
                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
CCLIUTL.SRCJSETVOLUME.832:1
                                                                                                                           16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
                                                                                                                                                                                                                                                       (14)
   1729
1730
1731
1733
1733
1733
1744
1744
1755
1756
1766
1768
1769
1769
1769
                                                                    .status);
END
                                              ELSE
                                                      BEGIN
                                                  The first record contains the volume set name. Skip it.
                                                      $GET(RAB = rab);
                                                  Search thru the records until the one matching the saved old label is found. When found, replace the old label with the new one, and
                                                  update the record.
                                                      WHILE $GET(RAB = rab) DO
                                                           BEGIN
IF CHSEQL(vcb$s_volname,
label_buff,
vsl$s_name,
buffer,
                                                              THEN
                                                                    BEGIN
CH$COPY(.label_value[0],
label_value[1],
                                                                vsl$s_name,
buffer);
rab[rab$l_rbf] = buffer;
rab[rab$w_rsz] = vsl$c_length;
$UPDATE(RAB = rab);
EXITLOOP
END;
                                                              END:
                                                      END:
                                              $CLOSE(FAB = fab);
                                             RETURN;
END;
                                                                                                                                                .PSECT
                                                                                                                                                              SPLITS, NOWRT, NOEXE, 2
                                                                                                                    00468
00477
00478
00479
0047A
0047C
00480
00484
00488
                                                                                                                                               .ASCII
.BLKB
.BYTE
.BYTE
.WORD
.LONG
.LONG
.LONG
.LONG
.LONG
               53
                                     45
                                              53
                       2E
                              54
                                                     40
                                                             4F
                                                                     56
                                                                             50
                                                                                     30
                                                                                            50
                                                                                                    30
                                                                                                            5B
                                                                                                                               P.ADW:
                                                                                                                                                               \[0,0]VOLSET.SYS\
                                                                                                 03
50
0000
0000000
0000000
0000000
0000
                                                                                                                               P.ADX:
                                                                                                                                                              80
0
0
```

	f 5 16-Sep-19 14-Sep-19	084 01:01 084 12:09	:55 VAX-11 Bliss-32 V4.0-742 :22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 62
00000000 00000000 00000000 00000000 000000	0048E 0049F 00496 00495 00496 00496 00496 00496 004A0 004A0 004A0 004A0 004AB 004AB 004B6 004B6 004B6 004B7 004B8 004B6 004C0 004C3 004C3 004C4 004C3 004C4	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	11	
		.EXTRN	SYS\$CONNECT, SYS\$GET SYS\$UPDATE, SYS\$CLOSE	
		.PSECT	SCODES, NOWRT, 2	

OOFC 00000 MODIFY\_VOLSET:

SETVOL V04-000								1	S-Sep	-1984 01:01 -1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 63 (14)
				57	000000006	00	96	00002		-WORD	Save	R2,R3,R4,R5,R6,R7 GET, R7 (SP), SP	: 1659
	FF70 0080	CD	000000000	SE EF	FEAC 0050 0044	OO CE 8F	9E88EE0009F	00002 00009 0000E		MOVAB MOVC3	-340 #80.	(SP) SP P.ADX, FAB	1684
	0800	CE	00000000° 00A4 FF68	CE	0044 C0	8F AD	28 9E	0001A 00026		MOVC3 MOVAB	#68, BUFF	P.ADX, FAB P.ADY, RAB ER, RAB+36 RAB+60 RO S, FAB+44 , FAB+52 SYSSOPEN	: 1684 : 1687 : 1684
				CE CD 50	FF70 04 04	AD CD AC AO 60 CD	DO	00025		MOVL	DESC	RO FARACE	1692
			9¢	AD	FF70	60	90 96	0003C		MOVB	(RO)	, FAB+52	1693
			0000000G	00 56 11		01	FB	00026 00033 00037 0003C 00040 0004B 0004E 00051		CALLS	#1. RO.	SYSSOPEN STATUS 'US, 18	1
					0080	50 56 CE	9F	0004E 00051		PUSHAB	DAR		: 1699
			000000006	56 28 50		50 56	DO	00055 0005C		MOVL	RO.	STATUS	1700
		6E	90			AD 50	9A 28	00062	15:	MOVZBL MOVC3	FAB+	52, RO AFAR+44 R	1700
		63		BD 50 BD	A5	AD 50	FB0 E8A 8 9 2 8 D 9 F	0006B 0006F		MOVZBL MOVC3	FAB+	SYS\$CONNECT STATUS TUS, 2\$ 52, RO aFAB+44, B 53, RO aFAB+48, (PTR)	1710 1712 1716 1713
					70	AD 50 50 56 AE 01	DD 9F	00055 0005F 00062 00066 0006B 0006F 00074 00076 0007B 00081 0008A		MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB PUSHAB CALLS MOVL BLBC PUSHAB CALLS MOVL BLBS MOVZBL	STAT	rus	: 1716 : 1713
			000000006	00	000000006	8F	DD DD FB	00079 0007B		PUSHL	#SET	S WRITEERR LIBSSIGNAL	
			00000000	00	0080	04 42 CF	11 9F	00088 88000	28:	BRB	45 RAB	LID#31GNAL	1700 1725
				67	0080	01 CE	FB 9F	0008E 00091	38:	CALLS PUSHAB	#1,	SYS\$GET	1732
				67 31		01 50 00	FB E9 29	00095 00098		BLBC	#1.	SYSSGET 48 LABEL_BUFF, BUFFER	
	CO		00000000.	EF	00000000	EB EF	12	0009B 000A4 000A6		CALLS PUSHAB CALLS BLBC CMPC3 BNEQ MOVC5	7.0		1734
0		20	00000000		CO	AD		000B3			BUFF	L VALUE, aLABEL_VALUE+4, #32, #12, -	
			00A8 00A2	CE	0800	AD 8F CE	9E 9B 9F	000B3 000B5 000BB 000C1 000C5 000CC 000D0		MOVAB MOVZBW PUSHAB	M64	ER, RAB+40 RAB+34	1746 1747 1748
			00000000G		FF70	O1 CD	FB 9F	000C5	45:	PUSHAB	FAB	SYSSUPDATE	1754
			0000000G	00		01	FB 04	000D0 000D7		RET	#1.	SYS\$CLOSE	1757

; Routine Size: 216 bytes, Routine Base: \$CODE\$ + OEEO

00000000G 00

6C FA 0000

.ENTRY COMMON IO, Save nothing CALLG (AP), SYS\$QIOW RET

: 1758 : 1803 : 1805

Page 64 (15)

SETVOL VO4-000

1 5 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.832;1

; Routine Size: 10 bytes, Routine Base: \$CODE\$ + OFB8

SIV	ETVOL 04-000 1821 1806 1 END 1822 1807 0 ELUDO	M			J 5 16-Sep-198 14-Sep-198	4 01:01 4 12:09	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	
		000	FT CHMMADY			.EXTRN	LIBS	SSIGNAL, LIB\$STOP	
	Name	Bytes	CT SUMMARY		Attributes				
	SGLOBALS SOWNS SPLITS SCODES	48 984 1292 4034	NOVEC, WRT, NOVEC, WRT, NOVEC, NOWRT, NOVEC, NOWRT,	RD .NO RD .NO RD .NO	EXE, NOSHR, EXE, NOSHR, EXE, NOSHR, EXE, NOSHR,	LCL.	REL, REL, REL, REL,	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)	
:		Library St	atistics						
:	File	2.0.0.7 30	S	ymbols -	Percent	Pages Mappe		Processing Time	
:	_\$255\$DUA28:[SYSLIB]LIB.L3 _\$255\$DUA28:[SYSLIB]TPAMAC	2;1 .L32;1	18619	181	8	1000		00:01.8 00:00.2	
:	BI ISS/CHECK=(FIFID IN		MMAND QUALIFI		/08 I=08 I\$+5	ETVOLUM	E MSR	CS:SETVOLUME/UPDATE=(ENHS:SETVOLU	IME )
				L. VOLUME		2.7020			

0054 AH-BT13A-SE

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